The PRODUCT MONITOR

RATINGS

Superb	★★★★★
Excellent	★★★★
Very Good	★★★
Good	★★
Fair	★
Poor	☹
Bad	☠
Defective	☠

Eamon MCMXCII

Origins

In the mid-70's, if you had a 300-baud modem terminal, you could dial up most 'time share' systems and play the first computer adventure. "Adventure Land" ("The Adventure", etc.) was— in fact, still IS— a text-only game which challenges the player to solve puzzles, overcome hazards, and collect goodies. In a 'Text Adventure', you type in commands and get text descriptions of what happens as a result. For instance, GO NORTH might produce something like "You are in a rocky gulch with high cliffs to the east and west. The way continues north and south. An iron grate covers an opening in the ground." (Hint: OPEN GRATE!)

With the arrival of for-real home computers like the Apple II, text adventuring really 'took off'. We had the Scott Adams quests (e.g. "The Pyramid of Doom"), Infocom's "Zork" (I-III), "Enchanter", "Wishbringer", etc., assorted adventures from other vendors, and 'home brew' efforts published in magazines like Computist and SoftSide. The early '80's also saw the beginnings of Eamon adventuring.

Eamon?

"Eamon" is not a single adventure. It is a text adventure play and authoring system originated by Don Brown. His idea was to provide both a character creation/jumping-off point for many adventures AND the tools by which he and fellow enthusiasts would produce an unending stream of new scenarios. Don wrote "The Beginner's Cave" and a few other early adventures; but, most of the over 200 Eamon's are by numerous creators who joined in later.

Indeed, "Eamon" is people. It is chiefly due to efforts of the many "fellow enthusiasts" that Eamon adventuring continues to flourish. The Apple Avocation Alliance was largely responsible for organizing, numbering, and distributing the early Eamons. Besides writing several adventures, John Nelson helped collect submissions and expanded the capabilities of MAIN PGM (the main game program) through version 6.2. Via the Eamon Adventurer's Guild (EAG), Tom Zuchowski deserves most of the credit for adapting to Apple II series improvements, assuring product quality, and, in general, maintaining order in modern Eamonville. Tom has also produced a number of scenarios; and, his version 7.0 of MAIN PGM is just one of many contributions to Eamon game development. Chuck Haight has been a solid Eamon supporter from its earliest days. Computist not only publishes Guild ads, but, as a distributor, supplies Eamon adventures and authoring materials (complete with fancy diskette labels!) at unbeatable prices.

The Guild does not pay for submissions and all Eamon materials are public domain. Anyone can copy them, place

them in user group libraries, or post them to bulletin boards. (Of course, club libraries and BB's are not nearly so likely to have the latest version of each adventure as is an official distributor like Computist.) Possibly, Eamon's best 'selling point' is that the many people who make it work do so, mainly, for fun.

"Eamon" is also a place, one dominated by an imposing structure known as The Main Hall. Here you can buy and sell arms and armor, bank your gold, and hire a wizard to teach you Eamon's four 'stock' spells (Blast, Heal, Power, Speed). Presiding over the Main Hall is a burly Irishman whose first question is always "What's yer name?"

To get started, you enter a character name. If the name is not found in the CHARACTERS file, the character is created— you pick gender and the program assigns Hardiness, Agility, and Charisma plus skills numbers for five Weapon types (Spear, Axe, Club, Bow/Gun, Sword) and Armor use. There is no strict limit on the number of

characters you and/or others who use the same "Eamon Master" (Main Hall) diskette can create; but, you can bring in only one hero per adventure. Since scenarios often allow some development of skills and attributes, players usually stick with a single character throughout their Eamon questing.

The Main Hall's most important attribute is that it leads to so many interesting places. Just select "Go on an adventure", pop in the diskette for your chosen quest, and you're off! As far as I know, no one has ever explained how leaving the Hall in this manner can place you at the mouth of a cave, before the gates of a city, on a Star Base launching platform, ... ; or, indeed, how returning from such disparate locales so often lands you "on the road leading to the Main Hall". Tom Zuchowski has speculated about "strange forces" brought to bear by the influence of orbiting suns. My guess is that magic, super science, and time portals are all involved.

The Adventures

When Computist published its first major Eamon article in 1983 there were only about 25 adventures; but, even then, quality varied wildly from scenario to scenario. Thanks to the EAG, serious bugs have, for the most part, been tracked down and eliminated; and new submissions are checked out more thoroughly. The Guild publishes a 10-page journal (four issues per year/ $7) where fixes for any newly discovered bugs appear. Along with news and reviews of late releases, each issue also lists authors and ratings for all 200+ adventures.

By far, the majority of Eamons are built around swords & sorcery themes running the gamut from whimsically Zorkian wanderings through Conanesque quests and Dragonlance-style crusades. Others may send you back to the time of dinosaurs, into the future to battle robots and mad scientists, drop you into a modern city to solve a crime, deposit you at the entrance to a haunted manse, or ... . There really is no limit to the possibilities. In terms of both numbers and variety, the challenge is practically endless.

Relatively few scenarios incorporate actual mazes (i.e. places where you are supposed to get lost); but, with up to 200 locations allowed via the standard game program, exploration is a goodly portion of every Eamon challenge. Most players rely upon simple line-and-box maps to keep track of treasures, puzzle-locked doorways, and other key features of the gamescape.

More so than in most other text adventures, critical achievements in Eamon tend to involve overcoming dangerous adversaries. In combats you trade blows to ATTACK MINOTAUR, BLAST GOLEM, etc. until all the bad guys are dispatched or flee. Most scenarios allow you to flee as well (one or more particularly aggressive monsters may follow) and a few permit three or four restorations should YOU be the one dispatched. Usually, getting killed ends the game and you must either create a new character or use a resurrection utility to restore the old one.

Some Infocom devotees may be turned off by Eamon's emphasis upon combat. Understandable; however, there are numerous adventure-enhancing side benefits. First, the need to overcome adversaries, makes character development and acquisition of better weapons 'mean something'. It greatly increases the stake you have in your character. Second, not all "monsters" are unfriendly; some will join you for the duration of a quest. (In Eamon, every character is, technically, a "monster". This includes critters, as well as guards, wizards, elf bowmen, princesses, etc..) Acquiring helpful recruits adds another dimension to the challenge; and, besides, it's more fun to go questing with stalwart companions at your side. Finally, as a Russian revolutionary once observed: "You can't make a soup without slicing monsters." Crusading against evil wizards, wicked queens, and other powerful foes naturally tends to be a rough business.

In text adventuring, "parsing" is equated with how well the game seems to understand your typed-in commands. A very good parser, such as the one you find in Infocom games, can make sense out of inputs that 'sound' the way people really speak. Since you don't have to fish around for just the right command, it is much easier to try out ideas. You play the game, not the game program.

Most Eamon adventures employ a two-word parser. To move, you enter commands like GO NORTH (or NORTH, or N). You may also OPEN CHEST, GET JEWEL, ATTACK VAMPIRE, DRINK POTION, READY LONG BOW, READ SIGN, ... Typically, an adventure recognizes 50-75 command words and the names of any

monsters and artifacts. (The reason for the variation in number of available commands is that many authors modify MAIN PGM, which is in BASIC, to add words.) Entering an invalid command automatically produces a list of commands the particular game understands.

The down side of Eamon's simple parser is that you must sometimes experiment to find the command that does what you know must be done. Scenario development is also impacted. To assure playability, Eamon authors have tended to avoid building-in complex puzzles. The up side is that, by the time you've gotten through your first two or three adventures, you have a good feel for how the commands are used and pretty well know what works and what doesn't. Then, too, many pre-Version 7.0 games employ author-originated mods which let the program understand synonyms, make sense of command abbreviations, and otherwise behave more intelligently. All of these are standard 7.0 features, as are improved capabilities for checking the status and inventory of any ally, trading items, and handling puzzle-oriented entries like PUT CUBE IN SLOT.

With so many games produced by so many authors, quality continues to vary a great deal. EAG nails bugs; but there's no question that some worlds are better 'filled-out' with richer prose and more interesting challenges. Playing time is another inconsistent variable. Most of the early adventures offer no GAME SAVE; yet, some may be good for barely an hour while others can run to four or five. The range is even larger for the newer games (including several multi-diskette quests) which often do, happily, offer a SAVE option.

Picking a 'good one' is a lot like shopping for something to read: you look for a juicy sounding title and a favorite author. EAG's reviews and ratings are a fair guide, too. (Each adventure is rated on a 1-10 scale; 10 is highest.) Predictably, however, many fun-to-play early adventures tend to be down-rated due to lower playing times. Most scenarios fit on a single diskette; and, at $1 each, you can afford to go for 'good prospects' AND experiment with 'unknowns'. A ten or twenty-dollar investment is guaranteed to deliver several evenings of adventuring challenge.

Eamoneering

Back in the early days of computer adventuring we collected Eamons more or less automatically from our local user group (HAAUG) library. Incredibly, I did not become a player until just the last couple of months, when curiosity about the adventures included on Computist Library Disks took hold. So far I've made it through thirty

or so scenarios. Fun (and more than 170 still ahead!); but, the real hook turned out to be the 'other side' of Eamon: programming and game development.

Among our vintage "AAA Eamon" adventures I came upon one not listed by EAG! (Kind of like finding an unpublished Brahms symphony.) "The City of Sorcerers" was playable; but, one notable bug and some undeveloped areas of the gamescape made it obvious the adventure was not quite finished. (Also, a dead give away, an early version of the dungeon editor was on the same diskette.)

I fixed the bug and began to fill-in some gaps and polish a few rough edges with the idea of sending "'City'" to EAG for registration under the original author's name. Well, one thing led to another and it soon became clear that 1. the version 6.x DUNGEON.EDIT I was using needed a user-friendliness transplant; 2. the version of MAIN PGM (which wasn't even named "MAIN PGM" in those days) imposed too many restrictions BECAUSE 3. I was making so many changes that a completely new adventure was taking shape! With the latter realization I copied the original, added the REMed bug fix, and mailed it to the Guild. "The City of Sorcerers" was where it belonged in the first place; and I was free to develop my own scenario.

First, I needed a better editor. NUEDIT began as a program intended to allow a player or designer to 'walk through' a gamescape (using normal N, S, etc. commands) and read descriptions without having to fight monsters. With a nice text editing routine lifted from DUNGEON.EDIT and using Beagle's Program Writer ($49.95) running on the IIgs, it wasn't long before the new editor was ready for serious work. (Writing NUEDIT was fun and a valuable refresher course in BASIC. In case you are thinking of learning a new programming language: Step One is to find something interesting to program.)

Anyway, armed with NUEDIT.6 and a more modern version of MAIN PGM, I was enmeshed in sculpting my new scenario when what should arrive in the mail but Tom Zuchowski's version 7.0 package! Complete with on-disk manual, this IS a major upgrade (still DOS 3.3-based) offering a larger gamescape, better speed, built-in GAME SAVE, and optional 80/40 column display. To which you can add a host of new artifact types (e.g. containers, keys, hidden doors, ...), better parsing, and other features guaranteed to enhance puzzle development. My 'old format' files were soon moved to 7.0. As for EAG's 7.0 editor, it is an improvement, but still too cum-

bersome. NUEDIT.6 became NUEDIT.7.

Along with the version 7.0 game creation materials, Tom included a beta version of a new "Multi-disk Supplement" (which, he notes, has never actually been used to create a game) and materials for authoring in 40 or 80 column ProDOS. Since my adventure is not seriously pushing 7.0's normal 1-diskette limit, and DOS 3.3 works on our II+ and IIgs, and our Eamons are all DOS 3.3 versions, I haven't tried the MDS or ProDOS stuff yet. (Speed would be a decisive ProDOS advantage except that most "DOS 3.3" users actually run some version of Beagle's Prontodos.)

Granted, ProDOS may be 'the wave of the future'; and, in fact, EAG now has ProDOS versions of roughly half the adventures. For now, 7.0 under '3.3 is, by far, the best tested, best documented format for Eamon authoring. Most of the newly released 'Guide for Eamon Adventure Designers and Players is devoted to version 7.0 play, utilities, and programming.

Note: The 21-page 'Guide' is available from Computist. It's the best introduction yet to Eamon adventuring AND it saves the bother of printing out the on-disk 7.0 manual. You'll find plenty of nuts & bolts detail covering Eamon text files, MAIN PGM, and LEADIN PROGRAM (a 'raw' game startup program where you can place introductory text, etc.). Evidently, the booklet is free with every order. There is one error— one which occurs in the on-diskette manual, too— on page 14, artifact Format 1 shows parm 5 as "Weapon type" and parm 6 as "Complexity"; it should say parm 5 is "Complexity" and parm 6 is "Weapon type".

The 'Guide' recommends that a game author have most of his/her scenario mapped-out BEFORE even booting up the editor. Perhaps experienced Eamon makers actually do it that way. Newcomers, however, can learn a great deal by starting with a rough idea, creating a few rooms with neat things to find and monsters to fight; and, then, giving the new adventure a try as a player. Changing (a copy of) an existing adventure is another good way to get started. Whatever your approach, once into creating an Eamon world you won't want to stop. Eamoneering is addictive stuff!

No PC?!

As far as I know, there is no PC or other non-Apple II equivalent for the Eamon Guild of Adventurers. (And, after speaking with Tom Zuchowski, my impression is that Hell may well freeze over before EAG changes its II-only policy.) Clearly, converting and test-playing 200+

adventures for another machine format is the sort of task one normally assigns to a monastery. It isn't likely to happen.

Happily, our PC-only readers can get into Eamon via a low-cost 'Eamon Kit'! According to flyers from some Apple-stuff vendors, an Apple II+ with mono monitor sells for $58. Add a disk drive and 80-column card (required for just a few adventures) and your total cost should fall somewhere around $200. (Comparable IIe and IIgs 'kits' sell for about $450.)

The Programs

NUEDIT.792 lets you edit a version 7.0 adventure or create one from scratch on a formatted diskette. (It will work in 40 or 80 column mode, whichever is active when the program is run.) When started, NUEDIT first asks you to insert the diskette to be edited. If NUEDIT detects an incompatible version it will tell you and then exit. If a compatible (7.x) version is detected NUEDIT takes you to the main menu ready to do editing.

If no adventure is found, NUEDIT will ask if you want to start a new adventure; if "YES", you will be asked for a name and the number of movement directions (6 for NSEWUD or 10 to permit NE, NW, etc. movement). NUEDIT then creates the standard Eamon TEXT files (7.0 default values are in parentheses):

EAMON.NAME: Name of the adventure, Number of directions (6 or 10), and Version number (7.0)

EAMON.DESC: descriptions of Rooms (records 1-200), Artifacts (201-400), Effects (401-600), Monsters (601-800). 'DESC Record length is 242; max length of each description is 238. Record 0 of this file has current counts of rooms, artifacts, effects, and monsters followed by record lengths for the 'ROOMS (72), 'MONSTERS (92), and 'ARTIFACTS (72) files.

EAMON.ROOMS: Each record has Name of a "room"/ location (max length= 38), room # Destination for each movement direction (for each direction, 0= none), and room Lumination (1= lighted, 0 means the player must have a lighted torch, etc. to see).

EAMON.ARTIFACTS: Each record has Name of the artifact (max length= 30), Value in gold, Type #, and Starting location plus four additional parms. The meaning of the latter depends upon artifact type. The 7.0 MAIN PGM recognizes 11 artifact types (e.g. Treasure, Weapon, Container, Door, etc.). NUEDIT includes formats/labels for all 11 and allows 4 additional user-defined types.

EAMON.MONSTERS: Each record has Name of the "monster" (max length= 30) followed by 11 parms to set hardiness, friendliness, starting room #,

etc.. Each record can describe just one monster or a group of same-kind monsters.

There is no separate 'EFFECTS' file because an effect is a text message (max length= 238) contained entirely in 'DESC.

At the start of new adventure creation, NUEDIT writes just one dummy record for each game element (room #1, artifact #1, effect #1, and monster #1).

Once at the main menu you press 'R' to view/edit Rooms, 'A' for Artifacts, etc.. When 'R', 'A', 'E', or 'M' is selected you are given the choice of entering the number of the room, etc. to view/edit OR pressing '+' to create one or more new records. (i.e. after selecting 'M', pressing '+' and entering "25" will create 25 dummy, ready-to-edit monster records.)

Most of the time you will be viewing/editing. For example, pressing 'R' and entering "73" will produce a display showing the room #, Room 73's name, the room's description, and the # of the room or door/gate you can reach by movement in each direction. Prompts at the bottom of the screen indicate that you may move to Room 72 or Room 74 using the arrow keys; OR, you may move to a destination room by pressing a directions key (like 'N', 'S', etc.). If the destination is a door/gate artifact, NUEDIT checks to see that the door and 'room beyond' both exist and automatically moves you to the room on the other side of the door. (*Note*: NUEDIT ignores any attempt to view or do anything to a room, artifact, etc. which does not yet exist.)

Entering 'C' and then, say, "142" copies the current room to Room 142. Entering '#' and, say, "55" is a quick way to hop to Room 55.

'Z' lets you edit displayed information. The cursor is set at the beginning of each item's field and you enter text or numbers as appropriate. (Pressing 'RETURN' with no changes retains the original and moves you to the next item.) Text editing is the same as in EAG's editor (CTRL-I inserts a space, etc.). One important change is that any text character at the length limit for a Name or Description is automatically pushed out when you do an insert. When done, NUEDIT lets you 'Save' the changed Room, 'Redo' editing without throwing away your work, or scrap the changes (the original display appears). 'SPC' exits to the main menu and CLOSEs all open files.

Viewing and editing Artifacts, Effects, and Monsters works much the same. When you have fixed choices, as in picking an artifact's Type, the current selection is shown (e.g. "Container") and the "<— —>" prompt reminds you to make your selection using the arrow keys.

Other main menu options let you change your adventure's name or get a Room Connections display. The Name Change option affects the name stored in EAMON.NAME and, possibly, the name of the your adventure's startup program. (The startup program is a user-made program or renamed LEADIN PROGRAM which has the same name as the adventure. To start play MAIN HALL reads EAMON.NAME to get the adventure's name and runs the startup program, which ends by running the main game program.) If a startup program has not yet been placed on the adventure diskette or it is still named LEADIN PROGRAM, etc., then Name Change affects only the name in EAMON.NAME.

The Connections option is very helpful for quickly checking your adventure's layout. It shows the selected room's destinations (or "exits") by direction ALONG WITH the exits for each destination. (Due to clutter, this option is not available in 10-direction mode.)

THE WONDERFUL WORLD OF EAMON and MAIN HALL programs have changed very little over the years. One enterprising author did produce an Ultima I-style map-graphics version of MAIN HALL. "Graphics MAIN HALL" seeks to patch a serious Eamon deficit, the absence of a cumulative Experience number, by letting you convert gold into attribute and skills boosts at various training centers and shops. GMH never 'caught on', partly because 1. It is too easy to overenhance your character; and, 2. Having to steer a figure around on the screen maps slows down transactions. Mainly, though, the problem is format. A graphics interface doesn't 'belong' in the Hall. The TEXT Main Hall remains the standard, accepted version because that's the way Eamon players like it.

Modified versions of Eamon's two core programs plus the new EXP.UPDATE program are listed in this issue. They add several enhancements without disturbing Eamon's traditional 'look' and feel:

Experience- The new MAIN HALL automatically runs EXP.UPDATE each time you return alive from an adventure. Your character gains Experience based upon gold obtained, new/better weapons brought back, and any gains in attributes and skills awarded by the scenario. Experience translates into Level advancement, whereupon you can select an attribute or skill to increase. The same program also records and displays the name of each adventure you have experienced along with the number of times played.

Roster- in 'WORLD OF EAMON, a new option lets you display names of all characters in the CHARACTERS file. You can also obtain an Experience display for any character showing adventures played and number of times for each.

Restoration- It is no longer necessary to run a separate utility to restore a killed-off character. In 'WORLD OF EAMON you need only visit The Temple of Restoration.

Locker- in MAIN HALL, a character who meets the Level requirement can buy a space in the Adventurer's Lockers. This space holds up to eight weapons. You can visit your locker at any time when at the Main Hall to deposit, retrieve, or swap-in items.

Status- the MAIN HALL character status display shows Experience and Level along with more detailed information on Magic skills and Armor Expertise. Similarly, displays for the Banker, Weapon Shop, and Magician now include useful information (e.g. gold in your possession, spells you already know, etc.) to help speed-up and simplify transactions.

Since installing the above enhancements, my dad and I have played through something like fifty adventures including ancient "AAA Eamon" versions of the earliest scenarios, newer 6.2 games with and without GAME SAVE, and the latest 7.0 scenarios. That the mods work and are compatible with any CHARACTERS file and characters already in existence is not especially remarkable given that information is passed back and forth among Eamon programs via TEXT files. Inputs and outputs are clear-cut and easy to keep track of. The same applies to the two new files each active character acquires: a name.EXP file (for experience data) and a name.LOC file (for locker data).

Probably, the most important mod is the incorporation of a true Experience attribute and recording of a character's adventures. The purpose is to up the stakes and deliver a more tangible payoff for player successes than mere gold. Advancing in Level and getting to increment Hardiness, Agility, etc. certainly qualifies. So does the 'status symbol' value of a high Level ranking. Now, even 'weakie' scenarios are worth completing; and, of course, a character with a long record of adventure credits (i.e. a genuine, provable history) becomes more real and more fun to play.

So far, so good. However, as veteran Eamoners well know, there are some adventures which shower the character with enormous wealth, hefty attribute boosts, and double-digit skills gains. Other scenarios may be just as extreme in the other direction. Either way, Experience would be devalued.

Consequently, EXP.UPDATE includes a 'change filter' which suppresses scenario-induced shifts in attributes and skills to just a point or so. In the same spirit, beyond roughly 10000 gold, wealth increase has little effect on calculated Experience gain; and, to squelch the 'honey pot' effect, potential Experience gain is less each time you replay any adventure.

Experience is also the one change likely to evoke some suspicion of risky, bomb-prone trickery. There are just three 'tricks', all fairly straightforward. First, to derive an experience gain, EXP.UPDATE compares the character's status and possessions before the adventure (saved in name.PRE) with status and possessions after.

To remember the name of the adventure, MAIN HALL copies it into the DOS error message area before running the adventure. This does no harm; and EXP.UPDATE is able to retrieve the name when you return. (If the adventure is restarted from a SAVEd game, EXP.UPDATE detects an invalid name and asks you to reinsert the adventure diskette long enough for it to read the name.) Finally, MAIN HALL needs to know whether it was RUN by an adventure's MAIN PGM (if you are alive, it sends you to EXP.UPDATE) or by either 'WORLD OF EAMON or EXP.UPDATE (you stay in the Main Hall). It can tell by PEEKing at the command buffer. The "RUN MAIN HALL" commands in 'WORLD' and 'UPDATE' have extra spaces inserted.

Of the other changes, only the Locker offers benefits which may not be apparent, especially to new players. The old MAIN HALL ownership limit of four weapons looks okay UNTIL you consider that 1. Weapons break! It's nice to have a good backup; 2. You want to develop skills for all FIVE weapon types; 3. It is handy to have some high quality weapons to carry into an adventure for use by allies you may acquire; and 4. When you've got your Locker and it's full, you are certain to complain that the eight extra spaces are not nearly enough! (I settled for eight to avoid having to scroll the Lockers display.)

To install the enhanced Eamon play programs, first make a 'just in case' backup of your "Eamon Master" play diskette. Now, copy the new programs. The 'WORLD OF EAMON and MAIN HALL will replace versions already there. EXP.UPDATE uses 21 sectors; and, for the new .EXP and .LOC files which will be created, you should figure on 8 or so sectors per active character. That's it. Veteran Eamoners can look forward to a new dimension of play. As for newcomers, the Wonderful World of Eamon awaits!

```
0 REM THE WONDERFUL WORLD
   OF EAMON
1 REM BOOT-UP PROGRAM FOR
   EAMON UNIVERSE
4 REM ORIG. RULES & CORE
   PROGRAMS BY DON BROWN
6 REM
7 REM ON-GOING
   DEVELOPMENT: TOM
   ZUCHOWSKI, E.A.G.
8 REM EAMON ADVENTURER'S
   GUILD 7625 HAWKHAVEN DR.
   CLEMMONS, NC 27012
9 REM (919) 766-7490
10 REM
11 REM PLAYER INPUTS
   CHARACTER NAME AND (IF
   EXISTING CHAR) GOES TO
   MAIN HALL.
12 REM IF NAME NOT IN
   'CHARACTERS' FILE THEN
   'NEW CARACTERS' PROGRAM
   IS RUN 1ST.
13 REM
14 REM 7/92 MODS BY JEFF
   HURLBERT (COMPUTIST
   MAGAZINE) 713-645-8680:
15 REM 1- PLAYER CAN
   RESTORE DEAD CHAR AT THE
   'TEMPLE'.
17 REM 2- PLAYER CAN VIEW
   RXPERIENCE RECORDS OF
   CHARACTERS VIA THE
   'ROSTER'.
24 REM
25 REM DRAGON PICTURE
   SHOWN
26 REM DURING PROGRAM BY
27 REM R.L. PHILLIPS &
   FRIENDS
28 REM OF ANN ARBOR, MICH.
29 REM THE BEAUTY IS
   GREATLY
30 REM ENJOYED.
31 REM
50 GOTO 100
55 PRINT DK$; "OPEN◊CHAR
   ACTERS,L150" : PRINT
   DK$; "READ◊CHARACTERS,
   R0" : INPUT NC: PRINT :
   RETURN
60 HOME : HTAB INT ((40 -
   LEN (Q$)) / 2) : PRINT
   Q$: FOR I = 1 TO 39:
   PRINT "_" ; : NEXT I:
   PRINT : PRINT : RETURN
67 Q$ = "R◊O◊S◊T◊E◊R◊◊◊OF
   ◊◊H◊E◊R◊O◊◊◊S":GOSUB 60
70 GOSUB 55: FOR R = 1 TO
   NC: PRINT DK$; "READ◊CH
   ARACTERS,R" ;R: INPUT A$
72 PRINT "[" ; SPC( R <
   10);R; "]◊" ;: IF A$ =
   "" THEN INPUT "" ;A$:
   PRINT "-" ;
73 INPUT "" ;HD,AG,CH:
   PRINT A$;
75 HTAB 28: PRINT HD; "◊"
   ;AG; "◊" ;CH
77 NEXT R: PRINT DK$
   "CLOSE"
78 PRINT : INPUT "<CR>◊TO◊
   EXIT◊OR◊#◊TO◊VIEW◊>>◊"
   ;A$: IF A$ = "" THEN 140
79 QQ = ASC (A$): IF QQ <
   49 OR QQ > 57 THEN 140
80 QQ = VAL (A$): IF QQ >
   NC THEN 140
81 GOSUB 55: PRINT DK$;
   "READ◊CHARACTERS,R" ;QQ:
   INPUT NA$: PRINT DK$;
   "CLOSE" : HOME : IF NA$
   = "" THEN PRINT : PRINT
   "FIRST, ◊YOU◊MUST◊VISIT◊
   THE◊TEMPLE" : PRINT "TO◊
   RESTORE◊THIS◊CHARACTER."
   : GOSUB 580: GOTO 67
82 PRINT "THE◊ADVENTURES
   ◊OF◊" ;NA$: PRINT
83 Z$ = NA$ + ".EXP"
84 ONERR GOTO 95
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85 PRINT DK$ "UNLOCK" Z$:
   PRINT DK$ "OPEN" Z$:
   PRINT DK$ "READ" Z$
86 FOR I = 0 TO 8: INPUT
   P(I): NEXT I
87 POKE 216,0
88 PRINT "LEVEL:◊" ;P(2);
   "◊◊◊◊EXPERIENCE:◊" ;P(1):
   PRINT : FOR I = 1 TO 39:
   PRINT "_" ;: NEXT I:
   PRINT
89 POKE 34,6: VTAB 7:QQ =
   0:J = 1
90 FOR I = J TO P(0):QQ =
   QQ + 1: INPUT E$,N%:
   PRINT E$; SPC( 31 - LEN
   (E$));N%; LEFT$ (
   "◊TIMES" ,6 - (N% = 1))
91 IF QQ > 14 THEN 93
92 NEXT I
93 QQ = 0: PRINT DK$
   "CLOSE" : PRINT
   "<KEY>◊" ;: GET Q$:
   HTAB 1: PRINT SPC( 9):
   PRINT :J = I + 1: IF J <
   = P(0) THEN PRINT DK$
   "OPEN" Z$: PRINT DK$
   "POSITION" Z$ ",R" ;I *
   2 + 9: PRINT DK$ "READ"
   Z$: GOTO 90
94 PRINT : POKE 34,0: GOTO
   98
95 PRINT "THIS◊CHARACTER
   ◊DOES◊NOT◊YET◊HAVE" :
   PRINT "AN◊ADVENTURING
   ◊RECORD.◊" ;
97 GET Q$: PRINT
98 POKE 216,0: PRINT DK$
   "CLOSE" : GOTO 140
100 TEXT : HOME : NORMAL
105 PRINT : PRINT "EAMON
   ◊ADVENTURER'S◊GUILD" :
   PRINT "7625◊HAWKHAVEN
   ◊DR." : PRINT "CLEMMONS,
   ◊NC◊27012" : PRINT
   "(919)766-7490" : FOR I
   = 1 TO 250: NEXT : PRINT
110 DK$ = CHR$ (4): PRINT
   DK$; "BLOAD◊EAMON.PIC,
   A$4000" :ZZ = PEEK ( -
   16299) + PEEK ( - 16297)
   + PEEK ( - 16302) + PEEK
   ( - 16304)
120 X = RND ( - PEEK (78)
   - PEEK (79))
125 PRINT DK$ "OPEN◊SNAPPY
   ,L64" : PRINT DK$ "READ◊
   SNAPPY,R0" : INPUT NS:R
   = INT ( RND (1) * NS +
   1): PRINT DK$ "READ◊SNAP
   PY,R" ;R: INPUT CM$:C1$
   = LEFT$ (CM$,23):C2$ =
   MID$ (CM$,24): PRINT DK$
   "CLOSE◊SNAPPY"
127 ONERR GOTO 131
130 PRINT DK$; "OPEN◊CHAR
   ACTERS,L150" : PRINT
   DK$; "READ◊CHARACTERS
   ,R0" : INPUT NC:R = 1 /
   NC: PRINT DK$; "READ◊
   CHARACTERS,R1" : INPUT
   A$: PRINT DK$ "CLOSE" :
   GOTO 135
131 POKE 216,0: PRINT DK$
   "CLOSE" : PRINT DK$
   "DELETE◊CHARACTERS" :
   PRINT DK$; "OPEN◊CHAR
   ACTERS,L150" : PRINT DK$
   "WRITE◊CHARACTERS,R0" :
   PRINT 1: PRINT DK$
   "WRITE◊CHARACTERS,R1"
132 PRINT : PRINT
   "NUGUY92"
133 FOR I = 1 TO 12: PRINT
   "11" : NEXT I: PRINT "0"
   : PRINT "M" : PRINT
   "200" : PRINT "0" :
   PRINT "0"
134 FOR I = 1 TO 4: PRINT
   "NONE" : PRINT "0" :
   PRINT "0,0" : NEXT I:
   PRINT DK$ "CLOSE"
135 POKE 216,0: FOR X = 1
   TO 500:I = RND (1): IF
```

```
PEEK ( - 16384) < 128
   THEN NEXT X
137 X = PEEK ( - 16368):
   TEXT
140 HOME : PRINT "◊◊◊YOU◊
   ARE◊IN◊THE◊OUTER◊CHAM
   BER◊OF◊THE" : PRINT
   "HALL◊OF◊THE◊GUILD◊OF◊
   FREE◊ADVENTURERS." :
   PRINT "MANY◊MEN◊AND◊
   WOMEN◊ARE◊GUZZLING◊BEER"
145 PRINT "AND◊THERE◊IS
   ◊LOUD◊SINGING◊AND◊LAUGH
   TER." : PRINT : PRINT
   "◊◊◊ON◊THE◊NORTH◊SIDE◊OF◊
   THE◊CHAMBER◊IS"
150 PRINT "A◊CUBBYHOLE◊
   WITH◊A◊DESK.◊OVER◊THE◊
   DESK" : PRINT "IS◊A◊SIGN
   ◊WHICH◊SAYS◊'REGISTER
   ◊HERE"
152 PRINT "OR◊VISIT◊TEMPLE
   ◊OF◊RESTORATION" : PRINT
   "OR◊VIEW◊ROSTER" : PRINT
   "OR◊ELSE!'" : PRINT
160 PRINT : PRINT "DO◊YOU◊
   GO◊OVER◊TO◊THE◊DESK, ◊JOIN
   ◊THE" : PRINT "◊◊BEER◊
   DRINKERS, ◊VISIT◊THE◊
   TEMPLE, ◊OR" : PRINT
   "◊◊CHECK◊OUT◊THE◊ROSTER
   ◊OF◊HEROES?"
190 PRINT : PRINT "◊◊(HIT◊
   'D'◊'B'◊'T'◊OR◊'R'.)◊◊"
   ;: GET A$: PRINT : IF A$
   = "D" THEN 220
195 IF A$ = "T" THEN GOSUB
   500: PRINT : GOTO 140
197 IF A$ = "R" THEN 67
200 IF A$ < > "B" THEN 140
210 PRINT : PRINT : PRINT
   "◊◊◊AS◊YOU◊GO◊OVER◊TO◊THE
   ◊MEN, ◊YOU◊FEEL" : PRINT
   : PRINT "A◊SWORD◊BEING◊
   THRUST◊THROUGH◊YOUR◊
   BACK"
215 PRINT : PRINT "AND◊YOU
   ◊HEAR◊SOMEONE◊SAY, ◊'YOU
   ◊REALLY" : PRINT : PRINT
   "MUST◊LEARN◊TO◊FOLLOW◊
   DIRECTIONS!'" : GOTO 345
217 Q$ = "T◊H◊E◊◊M◊A◊I◊N◊◊
   D◊E◊S◊K" : GOSUB 60:
   RETURN
220 GOSUB 217: PRINT "YOU
   ◊ARE◊GREETED◊HERE◊BY◊A
   ◊BURLY" : PRINT : PRINT
   "IRISHMAN◊WHO◊LOOKS◊AT◊
   YOU◊WITH◊A◊SCOWL" :
   PRINT : PRINT "AND◊ASKS
   ◊YOU, ◊'WHAT'S◊YOUR◊NAME
   ?'" : GOTO 235
230 PRINT
235 PRINT : PRINT "YOU◊
   GIVE◊HIM◊YOUR◊NAME." :
   PRINT : INPUT "◊>>>◊"
   ;NAME$
239 IF NAME$ = "" THEN
   GOSUB 217: VTAB 5: PRINT
   "'NO◊NAME, ◊NO◊GAME.◊YE◊
   CANNA◊BE◊NO◊SIN'" : PRINT
   : PRINT "ABOUT◊THE◊HALL◊
   NAMELESS!◊COME◊BACK
   ◊WHEN" : PRINT : PRINT
   "YE◊BE◊READY◊TO◊MAKE◊A◊
   BIT◊◊◊SENSE.'" : GOSUB
   580: GOTO 140
240 PRINT : IF LEN (NAME$)
   < 2 OR LEFT$ (NAME$,1) <
   "A" OR LEFT$ (NAME$,1) >
   "Z" THEN GOSUB 400: GOTO
   230
250 IF LEN (NAME$) > 20
   THEN GOSUB 217: PRINT
   "'" NAME$ "?!'" : PRINT
   : PRINT "◊◊HE◊SCOWLS◊AT
   ◊YOU◊AND◊SAYS, ◊'YER"
   : PRINT : PRINT "NAME'S◊
   TOO◊LONG◊FER◊ME◊BOOK.◊◊I
   ◊CANNA" : PRINT : PRINT
   "USE◊MORE◊THAN◊TWENTY
   ◊LETTERS." : PRINT :
   GOTO 230
260 PRINT "◊◊HE◊STARTS◊
   LOOKING◊THROUGH◊HIS◊
   BOOK," : PRINT : PRINT
```

```
"MUTTERING◊ABOUT" ;C1$:
   PRINT : PRINT C2$: PRINT
270 GOSUB 55: FOR R = 1 TO
   NC: PRINT DK$; "READ◊
   CHARACTERS,R" ;R: INPUT
   A$: IF A$ = NAME$ THEN
   330
280 NEXT R: PRINT DK$:
   PRINT "◊◊HE◊EVENTUALLY◊
   LOOKS◊AT◊YOU◊AND◊SAYS,"
   : PRINT : PRINT "'YER◊
   NAME'S◊NA◊IN◊HERE.◊HAVE
   ◊YE◊GIVEN" : PRINT :
   PRINT "IT◊TO◊ME◊ARIGHT
   ?'" : PRINT : PRINT
   "HOW◊DO◊YOU◊ANSWER◊(HIT◊
   'Y'◊OR◊'N')◊◊" ;
290 GET A$: PRINT A$:
   PRINT : IF A$ = "N" THEN
   GOSUB 400: GOTO 230
310 PRINT "◊◊◊HE◊HITS◊HIS◊
   FOREHEAD◊AND◊SAYS, ◊'AH,"
   : PRINT : PRINT "YE◊MUST
   ◊BE◊NEW◊HERE!◊WELL, ◊WAIT
   ◊JUST" : PRINT : PRINT
   "A◊MINUTE◊AND◊I'LL◊BRING◊
   SOMEONE◊OUT◊TO" : PRINT
   : PRINT "TAKE◊CARE◊OF
   ◊YE.'" : PRINT
320 GOSUB 350: PRINT DK$;
   "RUN◊NEW◊CHARACTERS
   ,S6,D1"
330 PRINT DK$: PRINT :
   PRINT "◊◊◊HE◊LOOKS◊UP◊
   AND◊SAYS, ◊'AH, ◊HERE◊YE"
   : PRINT : PRINT "BE!◊
   ◊WELL, ◊GO◊AND◊HAVE◊FUN◊
   IN◊THE◊HALL!'" : PRINT
340 GOSUB 350: PRINT DK$;
   "RUN◊◊◊MAIN◊HALL,S6,D1"
344 REM ///END: CLOSE
   ADDED
345 PRINT DK$ "CLOSE" :
   PRINT : END
350 PRINT DK$; "OPEN◊THE
   ◊ADVENTURER" : PRINT
   DK$; "WRITE◊THE◊ADVEN
   TURER" : PRINT NAME$:
   PRINT R: PRINT DK$;
   "CLOSE" : RETURN
399 REM ///NO NAME ROUTINE
400 GOSUB 217: VTAB 5
410 CNT = CNT + 1: IF CNT
   > 1 THEN 450
420 PRINT "◊HE◊PULLS◊OUT◊
   A◊SWORD◊AND◊BEGINS◊TO" :
   PRINT "SHARPEN◊IT, ◊SAY
   ING◊'YE◊D◊BEST◊BE◊
   GIVIN'" : PRINT "ME◊YER◊
   NAME◊LADDIE, ◊IF◊YE◊KNOW
   ◊WOTS" : PRINT "GOOD◊FER
   ◊YE!!!"
430 RETURN
450 IF CNT = 2 THEN PRINT
   "I'VE◊'BOUT◊HAD◊ME◊FILL◊
   O'◊YER◊SICK" : PRINT
   "SENSA◊'UMOR!!" : PRINT
   "NOW◊GIMME◊YER◊NAME!!" :
   RETURN
460 IF CNT = 3 THEN PRINT
   "THE◊MAN◊CUTS◊ONE◊OF◊
   YOUR◊FINGERS◊OFF!!" :
   PRINT "HE◊THEN◊EATS◊IT!!
   !!" : PRINT "THEN◊HE◊
   SAYS◊'ARE◊YE◊READY◊T'
   ◊TALK◊NOW?" : RETURN
470 IF CNT < 13 THEN PRINT
   "THE◊MAN◊CUTS◊OFF◊
   ANOTHER◊FINGER!!!" :
   PRINT "HE◊EATS◊THIS◊ONE
   ◊TOO!!" : RETURN
480 PRINT "THE◊MAN◊STARTS◊
   SLOWLY, ◊'WELL◊YE◊BE◊" :
   PRINT "OUTTA◊FINGERS!!"
   : PRINT "THE◊MAN◊THEN◊
   SPINS◊AROUND◊AND◊RUNS◊
   YOU" : PRINT "THROUGH◊
   WITH◊A◊SPEED◊YOU◊HAVE
   ◊NEVER" : PRINT "SEEN◊
   BEFORE!◊(AND◊NEVER◊WILL
   ◊AGAIN.)" : GOTO 345
499 REM THE TEMPLE
500 Q$ = "THE◊TEMPLE◊OF◊
   RESTORATION" : GOSUB 60
505 PRINT "WHO◊IS◊TO◊BE
   ◊RESTORED?" : PRINT :
```

Column 1

```
INPUT "◊>>◊" ;NA$
510 IF NA$ = "" OR NA$ =
    "◊" THEN 590
530 GOSUB 55: FOR R = 1 TO
    NC: PRINT DK$ "READ◊
    CHARACTERS,R" ;R: INPUT
    N$: INPUT ME$
535 IF N$ = NA$ THEN PRINT
    : PRINT N$ "◊IS◊IN◊GOOD
    ◊SHAPE!" : PRINT DK$
    "CLOSE" : GOTO 580
540 IF N$ < > "" THEN 555
550 IF ME$ = MID$ (NA$,2)
    THEN 560
555 NEXT R: GOTO 570
560 PRINT DK$ "WRITE◊
    CHARACTERS,R" ;R: PRINT
    NA$: PRINT DK$ "CLOSE" :
    PRINT : PRINT "OKAY,◊"
    ;NA$; "◊IS◊RESTORED!" :
    GOTO 580
570 PRINT "I◊CAN'T◊FIND
    ◊ANY◊DEAD◊" ;NA$: PRINT
    DK$ "CLOSE"
580 PRINT : PRINT "<KEY>◊"
    ;: GET Q$: PRINT Q$
590 RETURN
```

Checksums

0-$92CC	86-$AE33	235-$BC93
1-$DB99	87-$EF54	239-$A457
4-$8756	88-$3639	240-$E971
6-$9CE1	89-$DF9B	250-$E70C
7-$2AFA	90-$6282	260-$C0AF
8-$D0BB	91-$4C59	270-$D082
9-$4029	92-$0E8B	280-$E968
10-$17DA	93-$DDC7	290-$152F
11-$9535	94-$CA4C	310-$FEB2
12-$CB6C	95-$704C	320-$DE26
13-$03FA	97-$C0D1	330-$6EE6
14-$8039	98-$51C4	340-$9A60
15-$5232	100-$097E	344-$E076
17-$9D8D	105-$2E40	345-$97A8
24-$8316	110-$CD05	350-$E475
25-$8144	120-$F060	399-$0C1F
26-$86ED	125-$E482	400-$4CE3
27-$B6A6	127-$D003	410-$0CD7
28-$4CCD	130-$699C	420-$837F
29-$5E0B	131-$08EF	430-$9023
30-$1DDA	132-$7654	450-$354C
31-$9535	133-$00D8	460-$65EA
50-$52D6	134-$BE80	470-$7D68
55-$4B64	135-$7800	480-$D0E3
60-$4180	137-$4869	499-$9211
67-$2AED	140-$351F	500-$E351
70-$30BA	145-$6214	505-$B2FB
72-$BFE3	150-$B068	510-$653C
73-$5BC6	152-$D9E3	530-$282A
75-$B0AA	160-$14B1	535-$6775
77-$DC8A	190-$43AA	540-$DC11
78-$271B	195-$1B5D	550-$25CC
79-$5E26	197-$B401	555-$4618
80-$24AF	200-$D3FF	560-$5E6F
81-$ABB5	210-$AAF4	570-$D39B
82-$739E	215-$1DB0	580-$DCBD
83-$70FE	217-$4AD1	590-$2537
84-$82A7	220-$8950	
85-$7E2B	230-$7A6F	

Main Hall

```
0 REM
1 REM MAIN HALL (BUY STUFF
  & GO ON ADVENTURES)
  ORIG. BY DONALD BROWN
2 REM
3 REM REV. 9/92: ADDS
  LOCKER, IMPROVED CHAR
  STATS DISPLAYS/
  EXPERIENCE ...
4 REM BY JEFF HURLBURT
  (COMPUTIST MAGAZINE)
  713-645-8680
5 REM 8000 SUB: Q9=1 MEANS
  HALL RUN FROM AN
  ADVENTURE
7 GOSUB 8000
8 PRINT CHR$ (4)
  "MAXFILES◊3"
9 TEXT : HOME : NORMAL :
  SPEED= 255
```

Column 2

```
10 DK$ = CHR$ (4):U$ =
   "_____
   _____"
```

Editors note: "In line #10, U$ contains 39 underlines.

```
16 VTAB 5: PRINT "EAMON◊
   ADVENTURER'S◊GUILD" :
   PRINT "7625◊HAWKHAVEN
   ◊DR." : PRINT "CLEMMONS,
   ◊NC◊27012"
17 DIM SA%(5),WA%(6),WN$
   (6),WT%(6),WO%(6),WD%(6)
   ,WS%(6),LN$(8),LT%(8),
   LO%(8),LD$(8),LS$(8)
20 ONERR GOTO 7000
30 PRINT DK$; "OPEN◊THE◊
   ADVENTURER" : PRINT DK$;
   "READ◊THE◊ADVENTURER" :
   INPUT NAME$: INPUT REC:
   PRINT DK$; "CLOSE"
35 IF Q9 = 1 THEN PRINT
   DK$; "RUN◊EXP.UPDATE" :
   END
37 ONERR GOTO 49
38 Q$ = NAME$ + ".EXP" :
   PRINT DK$ "OPEN" Q$:
   PRINT DK$ "READ" Q$:
   INPUT XN,XE,XL: PRINT
   DK$ "CLOSE"
40 REM OLD ONERR GOTO100
42 Q$ = NAME$ + ".LOC" :
   PRINT DK$ "OPEN" Q$:
   PRINT DK$ "READ" Q$: FOR
   I = 1 TO 8: INPUT LN$(I)
   ,LT%(I), LO%(I)
   ,LD%(I) ,LS%(I): NEXT I:LQ = 1
49 PRINT DK$ "CLOSE"
50 PRINT DK$; "OPEN◊CHAR
   ACTERS,L150" : PRINT
   DK$; "READ◊CHARACTERS,R"
   ;REC: INPUT NAME$: INPUT
   HD,AG,CH: FOR X = 1 TO
   4: INPUT SA%(X): NEXT :
   FOR X = 1 TO 5: INPUT
   WA%(X): NEXT : INPUT AE
60 INPUT SEX$
70 INPUT GOLD,BANK: INPUT
   AC: FOR W = 1 TO 4:
   INPUT WNAME$(W),WTYPE%
   (W),WODDS%(W),WDICE%(W)
   ,WSIDES%(W): NEXT W:
   PRINT DK$; "CLOSE"
73 FOR I = 1 TO 4: IF
   WN$(I) = "" THEN WN$(I) =
   "NONE"
75 IF WN$(I) = "NONE" THEN
   WO%(I) = 0:WD%(I) =
   0:WS%(I) = 0
77 NEXT I
80 DEF FN P(X) = INT (X *
   RTIO + .5)
90 POKE 216,0
100 HOME :Q = FRE (0)
102 HTAB 9: PRINT "T◊H◊E◊
    M◊A◊I◊N◊◊H◊A◊L◊L" : FOR
    I = 1 TO 39: PRINT "_"
    ;: NEXT I: PRINT : PRINT
105 PRINT "AS◊YOU◊WANDER◊
    ABOUT◊THE◊HALL,◊YOU" :
    PRINT "REALIZE◊YOU◊CAN
    ◊DO◊ONE◊OF◊SEVEN◊THINGS:"
    : PRINT : PRINT "1.◊◊GO
    ◊ON◊AN◊ADVENTURE." :
    PRINT : PRINT "2.◊◊VIS
    IT◊THE◊WEAPON◊SHOP◊FOR
    ◊ARMS."
110 PRINT : PRINT "3.◊
    ◊HIRE◊A◊WIZARD◊TO◊TEACH
    ◊YOU◊SPELLS." : PRINT :
    PRINT "4.◊◊FIND◊THE◊
    BANKER◊TO◊DEPOSIT◊OR
    ◊◊◊◊WITHDRAW
    ◊SOME◊GOLD." : PRINT :
    PRINT "5.◊◊EXAMINE◊
    YOUR◊ABILITIES."
115 PRINT : PRINT "6.◊◊GO
    ◊TO◊THE◊ADVENTURERS'◊
    LOCKERS." : PRINT :
    PRINT "7.◊◊TEMPORARILY
    ◊LEAVE◊THE◊UNIVERSE."
120 PRINT : PRINT : PRINT
    "(HIT◊THE◊KEY◊FOR◊YOUR
    ◊CHOICE,◊1-7)" ;
```

Column 3

```
130 GET A$:CMD = VAL (A$):
    IF CMD < 1 OR CMD > 7
    THEN 130
140 PRINT CMD: PRINT : ON
    CMD GOTO 1000,2000,3000,
    4000,5000,5500,6000
200 PRINT NAME$
202 PRINT HD: PRINT AG:
    PRINT CH: FOR X = 1 TO
    4: PRINT SA%(X): NEXT :
    FOR X = 1 TO 5: PRINT
    WA%(X): NEXT : PRINT AE:
    PRINT SEX$
210 PRINT GOLD: PRINT
    BANK: PRINT AC: FOR W =
    1 TO 4: PRINT WNAME$(W):
    PRINT WTYPE%(W): PRINT
    WOODS%(W): PRINT
    WDICE%(W): PRINT
    WSIDES%(W): NEXT W
220 RETURN
300 IF LQ THEN Q$ = NAME$
    + ".LOC" : PRINT DK$
    "OPEN" Q$: PRINT DK$
    "WRITE" Q$: FOR I = 1 TO
    8: PRINT LN$(I): PRINT
    LT%(I): PRINT LO%(I):
    PRINT LD%(I): PRINT
    LS%(I): NEXT I: PRINT
    DK$ "CLOSE"
310 RETURN
1000 HOME :Q = LEN (NAME$)
1003 PRINT DK$; "OPEN◊
     CHARACTERS,L150" : PRINT
     DK$; "WRITE◊CHARACTERS
     ,R" ;REC: PRINT : PRINT
     RIGHT$ (NAME$,Q - 1):
     GOSUB 202: PRINT DK$;
     "CLOSE"
1005 Q$ = NAME$ + ".PRE" :
     PRINT DK$ "OPEN" Q$:
     PRINT DK$ "WRITE" Q$:
     GOSUB 200: PRINT DK$
     "CLOSE" Q$
1007 GOSUB 300
1010 HOME : VTAB 5: PRINT
     "INSERT◊DISKETTE◊WITH◊
     ADVENTURE◊(OR◊KEEP" :
     PRINT : PRINT "THIS◊DISK
     ETTE◊FOR◊BEGINNERS◊CAVE
     ◊IN" : PRINT : PRINT
     "DISK◊DRIVE◊IN◊SLOT◊SIX,
     ◊DRIVE◊ONE◊THEN" : PRINT
     : PRINT "HIT◊'C'" :
     PRINT : PRINT : PRINT :
     PRINT "◊◊◊◊◊" ;: POKE -
     16368,0
1020 GET A$: IF A$ < > "C"
     THEN 1020
1030 PRINT
1040 PRINT DK$; "OPEN◊
     EAMON.NAME" : PRINT DK$;
     "READ◊EAMON.NAME" :
     INPUT ADNAME$: PRINT
     DK$; "CLOSE"
1045 GOSUB 8100
1047 HOME : FOR I = 1 TO
     12:J = 25 - I: VTAB I:
     PRINT U$: VTAB J: PRINT
     U$: NEXT : FOR I = 12
     TO 1 STEP - 1:J = 25 -
     I: VTAB I: PRINT SPC(
     40): VTAB J: PRINT SPC(
     40): NEXT I
1050 VTAB 10: PRINT "YOU◊
     ARE◊ABOUT◊TO◊ADVENTURE
     ◊IN" : PRINT : INVERSE :
     PRINT ADNAME$: NORMAL :
     PRINT : PRINT
1060 PRINT DK$; "OPEN◊
     FRESH◊MEAT" : PRINT DK$;
     "WRITE◊FRESH◊MEAT" :
     PRINT REC: GOSUB 200:
     PRINT DK$; "CLOSE" :
     PRINT DK$; "RUN◊"
     ;ADNAME$
1920 FOR W2 = ZW TO
     4:WN$(W2) = WN$(W2 +
     1):WT%(W2) = WT%(W2 +
     1):WO%(W2) = WO%(W2 +
     1):WD%(W2) = WD%(W2 +
     1):WS%(W2) = WS%(W2 +
     1): NEXT W2:WN$(4) =
     "NONE" : RETURN
1940 HOME : HTAB 4: PRINT
     "I◊G◊M◊O◊'◊S◊◊L◊O◊C◊K◊E◊
```

Column 4

```
R◊S,◊◊I◊N◊C."
1941 PRINT U$: GOSUB
     5060:W = 0: FOR I = 1 TO
     4:W = W + WN$(I) =
     "NONE" : NEXT I: PRINT :
     IF LQ < 1 THEN GOSUB
     5008: PRINT : GOTO 1944
1942 X = 0: PRINT
     "IN◊STORAGE----" : FOR I
     = 1 TO 8:X = X + LN$(I)
     = "NONE" :Q = ABS
     (LO%(I)): PRINT LN$(I);:
     HTAB (24 - (LO%(I) < 0)
     + (Q < 10) + (Q < 100)):
     PRINT LO%(I); "%◊◊◊◊"
     ;LD%(I); "◊D◊" ;LS%(I):
     NEXT I: PRINT
1944 RETURN
1945 FOR I = 1 TO 4: IF Q$
     < > WN$(I) THEN NEXT I
1946 RETURN
1947 FOR I = 1 TO 8: IF Q$
     < > LN$(I) THEN NEXT I
1948 RETURN
1950 HOME : HTAB 10: PRINT
     "T◊H◊E◊◊B◊A◊N◊K◊E◊R" :
     PRINT U$: GOSUB 5008:
     PRINT : PRINT : RETURN
1970 HOME : HTAB 10: PRINT
     "T◊H◊E◊◊W◊I◊Z◊A◊R◊D" :
     PRINT U$: GOSUB 5008:
     GOSUB 5010: PRINT :
     PRINT : RETURN
1990 HOME : HTAB 9: PRINT
     "W◊E◊A◊P◊O◊N◊◊S◊H◊O◊P" :
     PRINT U$: PRINT : GOSUB
     5040: PRINT : RETURN
1998 PRINT : PRINT
     "<KEY>◊" ;: GET Q$:
     PRINT Q$: RETURN
1999 GOSUB 1998: PRINT :
     GOTO 100
2000 GOSUB 1990: GOTO 2005
2002 GOSUB 1998: PRINT
2003 GOSUB 1990: GOTO 2015
2005 PRINT "AS◊YOU◊ENTER◊
     THE◊WEAPON◊SHOP,◊MARCOS"
     : PRINT "CAVIELLI◊(THE◊
     OWNER)◊COMES◊FROM◊OUT
     OF" : PRINT "THE◊BACK◊
     ROOM◊AND◊SAYS,◊'WELL,
     ◊AS◊I"
2010 PRINT "LIVE◊AND◊
     BREATH,◊IF◊IT◊ISN'T◊MY◊
     OLD◊PAL" : PRINT NAME$
     "!" : PRINT
2015 PRINT "SO,◊YOU◊WANT
     ◊TO◊BUY◊A◊WEAPON,◊SELL"
     : PRINT "A◊WEAPON,◊OR◊GET
     ◊SOME◊BETTER◊ARMOUR?"
2017 PRINT : PRINT "(HIT
     ◊SPC◊TO◊EXIT◊OR◊B,◊S,◊
     A)◊" ;
2020 C2 = CH + INT (11 *
     RND (1) - 5):C2 = C2 +
     (C2 = 0):RTIO = 10 / C2
2030 GET A$: PRINT A$: FOR
     TR = 1 TO 3: IF A$ < >
     MID$ ("BSA" ,TR,1) THEN
     NEXT TR: GOSUB 1990: ON
     1 + INT ( RND (1) * 1.9)
     + (GOLD < 300) GOTO
     2210,2289,2113
2040 PRINT : ON TR GOTO
     2050,2220,2490
2050 IF WN$(4) < > "NONE"
     THEN GOSUB 1990: PRINT
     "MARCOS◊SMILES◊AT◊YOU◊
     AND◊SAYS,◊'THATSA" :
     PRINT "GOOD,◊BUT◊FIRST
     ◊YOU◊GOTTA◊SELL◊ME◊A" :
     PRINT "WEAPON.◊YOU◊
     KNOW◊THE◊LAW--NO◊MORE
     ◊THAN" : PRINT "FOUR◊
     WEAPONS◊PER◊PERSON!'" :
     PRINT : GOTO 2002
2060 GOSUB 1990: PRINT
     "MARCOS◊SMILES◊AT◊YOU
     AND◊SAYS,◊'GOOD.
     ◊PRINT "I◊GOTTA◊THE◊BEST.
     ◊YOU◊WANTA◊AXE,◊BOW," :
     PRINT "MACE,◊SPEAR,◊
     OR◊SWORD?" : PRINT :
     GOSUB 2650: IF A$ = "X"
     THEN 2003
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2070 GOSUB 1990: PRINT "MARCOS SAYS, 'WELL, I JUST HAPPEN TO" : PRINT "HAVE THREE" ;N$; "S IN , OF VARYING" : PRINT "QUALITY. I'VE GOT A VERY GOOD ONE FOR" : PRINT FN P(2 * BP); " GP , A FAIR ONE FOR " ; FN P(BP); " GP,"
2080 PRINT "AND A KINDA SHABBY ONE FOR" ; FN P(BP / 2): PRINT "WHICH DO YOU WANT?" : PRINT : PRINT "(HIT THE KEY, G F OR P) " ;
2090 GET A$: FOR Q = 1 TO 3: IF A$ < > MID$ ( "GFP" ,Q,1) THEN NEXT : GOTO 2287
2100 P = BP + BP * (Q = 1) - BP / 2 * (Q = 3):P = FN P(P)
2110 IF P < = GOLD THEN 2120
2111 GOSUB 1990: PRINT "MARCOS SHAKES A FINGER AT YOU AND SAYS," : PRINT "'YOU SHOULDN'T PLAY TRICKS ON AN OLD" : PRINT "FRIEND!'" : PRINT
2113 PRINT "'COME BACK WHEN YOU GOTTA MORE" : PRINT "GOLD OR YOU WANT SOMETHING YOU CAN" : PRINT "AFFORD.'MARCOS WAVES AS YOU LEAVE." : GOTO 1999
2120 FOR W = 1 TO 4: IF WN$(W) = N$ THEN N$ = N$ + "#" : GOTO 2120
2130 NEXT W: FOR W = 1 TO 4: IF WN$(W) < > "NONE" THEN NEXT
2140 WN$(W) = N$:WT%(W) = TP:WO%(W) = 10 * (2 - Q):WD%(W) = DICE:WS%(W) = SIDES:GOLD = GOLD - P
2150 GOSUB 1990: PRINT "MARCOS HANDS YOU YOUR WEAPON AND TAKES" : PRINT "THE PRICE FROM YOU." : PRINT
2160 GOSUB 1998
2170 GOSUB 1990: PRINT "HE NOW ASKS YOU, 'NOW HOW ABOUT SOME" : PRINT "ARMOUR?" : PRINT "(HIT Y OR N) " ;
2180 GET A$: PRINT A$: IF A$ = "N" THEN PRINT : ON 1 + SH GOTO 2580,2210
2190 IF A$ = "Y" THEN 2490
2200 GOTO 2003
2210 PRINT "MARCOS SMILES AND SAYS, 'COME BACK" : PRINT "AGAIN SOON!' AS HE SHOOS YOU OUT OF HIS" : PRINT "SHOP." : PRINT : GOTO 1999
2220 GOSUB 1990: PRINT "MARCOS ASKS YOU, 'IS THIS WEAPON YOU" : PRINT "WANT TO SELL ME A STAN DARD WEAPON LIKE" : PRINT "I SELL? (HIT 'Y' OR 'N') " ;
2230 GET A$: IF A$ = "Y" THEN 2350
2240 IF A$ < > "N" THEN 2003
2250 PRINT A$: PRINT :P = INT (50 / RTIO + .5): PRINT "MARCOS SAYS, ' THEN I CAN ONLY GIVE YOU" : PRINT P; " GOLD PIECES FOR IT, TAKE IT OR" : PRINT "LEAVE IT!" : PRINT : PRINT "(HIT T OR L) " ;
2260 GET A$: PRINT A$: IF A$ < > "T" THEN 2003
2280 PRINT : GOSUB 1990: PRINT "MARCOS SAYS, 'OK AY, WHAT'VE YOU GOT?" : PRINT : INPUT

"(WEAPON NAME) " ;W$: IF W$ = "" THEN 2287
2283 FOR W = 1 TO 4: IF WN$(W) < > W$ THEN NEXT : PRINT "MARCOS FROWNS AT YOU AND SAYS, 'YOU" : PRINT "CAN'T SELL A WEAPON YOU DON'T OWN!'" : GOTO 2002
2285 IF W$ < > "NONE" THEN 2290
2287 GOSUB 1990: PRINT "MARCOS SAYS, 'I THINK YOU ARE WASTING MY TIME!"
2289 PRINT : PRINT "MARCOS SHOOS YOU OUT OF HIS STORE." : GOTO 1999
2290 L = 5 * ( LEFT$(W$,5) = "SWORD" OR LEFT$(W$,5) = "SPEAR") + 4 * ( LEFT$ (W$,4) = "MACE" ) + 3 * ( LEFT$ (W$,3) = "BOW" OR LEFT$ (W$,3) = "AXE" ): IF L = 0 THEN 2300
2292 GOSUB 1990:N$ = LEFT$ (W$,L): PRINT "MARCOS FROWNS AT YOU AND SAYS," : PRINT : PRINT "'THIS N$ IS A WEAPON LIKE I SELL," : PRINT "REMEMBER!'" : GOSUB 1998: GOTO 2420
2300 PRINT :GOLD = GOLD + P:ZW = W: GOSUB 1920
2303 GOSUB 1990: PRINT "MARCOS GIVES YOU YOUR MONEY AND TAKES" : PRINT "YOUR WEAPON." : GOSUB 1998
2310 GOSUB 1990: PRINT "MARCOS ASKS YOU, 'HOW ABOUT BUYING A" : PRINT "WEAPON?" : PRINT "(HIT Y OR N) " ;
2320 GET A$: PRINT A$: IF A$ = "Y" THEN PRINT : GOTO 2050
2340 PRINT : GOTO 2170
2350 GOSUB 1990: PRINT "MARCOS ASKS, 'WELL, WHAT WEAPON YOU" : PRINT "WANT A RETURN?" : PRINT : GOSUB 2650: PRINT : IF A$ = "X" THEN 2003
2360 W2 = W: FOR W = 1 TO 4: IF LEFT$ ( WN$(W), LEN (N$)) < > N$ THEN NEXT : PRINT "MARCOS LAUGHS AND SAYS, 'YOU NEVER" : PRINT "BOUGHT ONE FROM ME, REMEMBER?'" : PRINT : GOTO 2002
2370 BP = BP + BP * (WO%(T ) > 5) - BP/2 * (WO%(T ) < - 5):P = INT (BP/RTIO + .5): IF P > BP / 4 THEN P = INT (BP / 4 + .5)
2380 GOSUB 1990: PRINT "MARCOS EXAMINES YOUR" N$ " AND" : PRINT "SAYS, 'LOOKS A LIKE YOU'VE DINGED 'ER" : PRINT "A BIT. I CAN OFFER" ;P; "GOLD PIECES.'" : PRINT
2381 PRINT "'TAKE IT OR LEAVE IT.'" : PRINT "(HIT T OR L) " ;
2390 GET A$: IF A$ < > "T" THEN 2003
2410 PRINT : GOTO 2300
2420 PRINT : FOR X = 1 TO 4: IF MID$ ( "ABMS" ,X,1) = LEFT$ (W$,1) THEN ON X GOTO 2440,2450,2460,2470
2430 NEXT X
2440 BP = 25: GOTO 2370
2450 BP = 40: GOTO 2370
2460 BP = 20: GOTO 2370
2470 IF MID$ (W$,2,1) = "P" THEN BP = 25: GOTO 2370
2480 BP = 50: GOTO 2370

2490 A2 = INT (AC / 2):SH = AC - A2 * 2:B1 = 25 * (A2 = 1) + 60 * (A2 = 2) + 100 * (A2 = 3):TI = INT (B1 / RTIO + .5)
2495 GOSUB 1990: PRINT "MARCOS TAKES YOU TO THE ARMOUR SECTION" : PRINT "OF HIS SHOP AND SHOWS YOU SUITS OF" : PRINT "LEATHER ARMOUR, CHAIN ARMOUR, AND PLATE." : GOSUB 1998: IF TI > B1 * 2 THEN TI = B1 * 2
2500 GOSUB 1990: PRINT "HE SAYS, 'I CAN PUT YOU IN ANY OF THESE" : PRINT "VERY CHEAPLY. I NEED" ; FN P(100); " GOLD" : PRINT "PIECES FOR THE LEATHER, " ; FN P(250); "FOR" : PRINT "THE CHA IN, AND " ; FN P(500); "FOR THE PLATE." : PRINT
2510 IF TI THEN PRINT "ALSO, I CAN GIVE YOU A TRADE-IN ON YOUR" : PRINT "OLD ARMOUR OF" ;TI; " GOLD PIECES." : PRINT
2520 PRINT "WELL, WHAT WILL IT BE?'" : PRINT : PRINT "(HIT SPC OR L, C, P) " ;
2530 GET A$: PRINT A$: FOR A = 1 TO 4: IF A$ < > MID$ ( "NLCP" ,A,1) THEN NEXT : ON 1 + (SH > 0) GOTO 2580,2003
2540 PRINT : IF A = 1 THEN 2570
2550 P = FN P(100 * (A = 2) + 250 * (A = 3) + 500 * (A = 4)) - TI: IF P > GOLD THEN GOSUB 1990: PRINT "MARCOS FROWNS WHEN HE SEES THAT YOU DO" : PRINT "NOT HAVE ENOU GHT TO PAY FOR YOUR" : PRINT "ARMOUR AND SAYS, 'I DON'T GIVE CREDIT!'" : PRINT : GOTO 2570
2560 GOLD = GOLD - P:A2 = A - 1:AC = A2 * 2 + SH: GOSUB 1990: PRINT "MARC OS TAKES YOUR OLD ARMOUR AND YOUR" : PRINT "GOLD AND HELPS YOU INTO YOUR NEW" : PRINT "ARMOUR."
2570 GOSUB 1998: IF SH THEN 2003
2580 GOSUB 1990: PRINT "MARCOS SMILES AND SAYS, 'NOW HOW ABOUT" : PRINT "A SHIELD? I CAN LET YOU HAVE ONE FOR" : PRINT "ONLY" ; FN P(50); " GO LD PIECES!'" : PRINT : PRINT "(HIT Y OR N)" ;
2590 GET A$: PRINT A$: IF A$ = "N" THEN PRINT : ON 1 + RND (1) * 1.9) GOTO 2289,2210
2600 IF A$ < > "Y" THEN 2003
2610 PRINT A$: PRINT : IF GOLD < FN P(50) THEN GOSUB 1990: PRINT "WHEN HE SEES THAT YOU DO NOT HAVE" : PRINT "ENOUGH GOLD TO BUY THE SHIELD, MARCOS" : PRINT "FROWNS AND SAYS, 'I'M SORRY, BUT I" : PRINT "DON'T GIVE CREDIT!'" : PRINT : GOTO 2113
2620 GOLD = GOLD - FN P(50):SH = 1:AC = A2 * 2 + SH: GOSUB 1990: PRINT "MARCOS TAKES YOUR GOLD AND GIVES YOU" : PRINT "A SHIELD." : GOTO 2003
2640 END
2650 PRINT "(HIT THE KEY (S), A B OM S P OR SW) " ;:

2660 GET A$: FOR W = 1 TO 4: IF A$ < > MID$ ( "ABMS" ,W,1) THEN NEXT W: GOTO 2755
2670 ON W GOTO 2680,2690,2700,2710
2680 PRINT "AXE" :BP = 25:N$ = "AXE" :TP = 1:SIDE = 6: GOTO 2750
2690 PRINT "BOW" :BP = 40:N$ = "BOW" :TP = 2:SIDE = 6: GOTO 2750
2700 PRINT "MACE" :BP = 20:N$ = "MACE" :TP = 3:SIDE = 4: GOTO 2750
2710 PRINT A$;:
2720 GET A$: IF A$ = "P" THEN PRINT "PEAR" :BP = 25:TP = 4:SIDE = 5:N$ = "SPEAR" : GOTO 2750
2730 IF A$ < > "W" THEN 2755
2740 PRINT "WORD" :BP = 50:N$ = "SWORD" :TP = 5:SIDE = 8
2750 DICE = 1: RETURN
2755 A$ = "X" : PRINT A$: RETURN
2760 END
3000 GOSUB 1970: GOTO 3005
3002 PRINT : GOSUB 1998
3003 GOSUB 1970: GOTO 3015
3005 PRINT "AFTER A FEW MINUTES DILIGENT SEARCH ING," : PRINT "YOU FIND HOKAS TOKAS, THE OLD MAGE. HE" : PRINT "LOOKS AT YOU AND SAYS, 'SO YOU WANT OLD" : PRINT "TOK EY TO TEACH YOU SOME MAGIC, HEH HEH?"
3010 PRINT "WELL, IT'LL COST YOU. " ;
3015 PRINT "TODAY MY FEES ARE:" :C2 = CH + INT (11 * RND (1) - 5):C2 = C2 + (C2 = 0):RTIO = 10 / C2
3020 PRINT " BLAST " ; FN P(3000); "GP" : PRINT " HEAL " ; FN P(1000) ; "GP" : PRINT " SPEED " ; FN P(5000); "GP" : PRINT " POWER " ; FN P(100); "GP" : PRINT
3030 PRINT "WELL, WHICH WILL IT BE?'" : PRINT : PRINT "(SPC TO LEAVE OR PICK B, H, S, P) " ;
3040 GET A$: FOR SP = 1 TO 4: IF A$ < > MID$ ( "BHSP" ,SP,1) THEN NEXT : PRINT : GOTO 3200
3050 ON SP GOTO 3060,3070,3080,3090
3060 A$ = "BLAST" : PRINT A$:P = FN P(3000): GOTO 3100
3070 A$ = "HEAL" : PRINT A$:P = FN P(1000): GOTO 3100
3080 A$ = "SPEED" : PRINT A$:P = FN P(5000): GOTO 3100
3090 A$ = "POWER" : PRINT A$:P = FN P(100)
3100 PRINT : IF P > GOLD THEN GOSUB 1970: PRINT "WHEN HOKAS SEES THAT YOU DON'T HAVE" : PRINT "ENOUGH TO PAY HIM, HE STALKS TO THE" : PRINT "BAR, MUTTERING ABOUT YOUNGSTERS WHO" : PRINT "SHOULD BE TURNED INTO FROGS." : GOTO 1999
3110 IF SA%(SP) < = 0 THEN 3120
3113 GOSUB 1970: PRINT "HOKAS SAYS, 'I OUGHT TO TAKE YOUR" : PRINT "GOLD ANYWAY, BUT HAVE N'T YOU FORGOTTEN" : PRINT "SOMETHING? I ALREADY TAUGHT YOU" A$ "!'"
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3114 IF CH > RND (1) * 28
     THEN 3002
3115 PRINT : PRINT "SHAK
     ING◊HIS◊HEAD◊SADLY,◊HE◊
     RETURNS◊TO" : PRINT
     "THE◊BAR." : GOTO 1999
3120 GOLD = GOLD -
     P:SA%(SP) = INT (50 *
     RND (1) + 26): GOSUB
     1970: PRINT "HOKAS◊TEACH
     ES◊YOU◊YOUR◊SPELL,◊TAKE
     S" : PRINT "HIS◊FEE,◊AND
     ◊RETURNS◊TO◊HIS◊STOOL◊
     ON" : PRINT "THE◊BAR."
3125 PRINT "AS◊YOU◊WALK◊
     AWAY◊YOU◊HEAR◊HIM" :
     PRINT "ORDER◊A◊DOUBLE
     ◊DRAGON◊BLOMB." : GOTO
     1999
3200 GOSUB 1970: PRINT
     "AS◊YOU◊LEAVE,◊YOU◊HEAR◊
     HOKAS◊MUTTERING" : PRINT
     "ABOUT◊CHEAPSKATE◊ADVENT
     URERS◊ALWAYS" : PRINT
     "WANTING◊SOMETHING◊FOR
     ◊NOTHING." : GOTO 1999
4000 GOSUB 1950: GOTO 4005
4002 PRINT : GOSUB 1998
4003 GOSUB 1950: GOTO 4015
4005 PRINT "YOU◊HAVE◊NO◊TR
     OUBLE◊SPOTTING◊SHYLOCK"
     : PRINT "MCFENNEY,◊THE◊
     LOCAL◊BANKER,◊DUE◊TO◊HIS
     " : PRINT "LARGE◊BELLY."
4007 PRINT : PRINT "YOU◊
     ATTRACT◊HIS◊ATTENTION
     ,◊AND" : PRINT "HE◊COM
     ES◊OVER◊TO◊YOU◊AND◊SAYS:"
     : PRINT
4010 PRINT NAME$ ",◊MY◊DE
     AR" ; MID$ ( "GIRLBOY"
     ,(SEX$ = "M" ) * 4 +
     1,4); "," : PRINT "THIS
     ◊IS◊A◊GENUINE◊PLEASURE!"
4015 PRINT "DO◊YOU◊WISH◊TO
     ◊MAKE◊A◊DEPOSIT(!)◊OR,"
     : PRINT "PERHAPS,◊A◊TINY
     ◊WITHDRAWAL?'◊(SPC/D/
     W)"
4030 GET A$: PRINT A$: IF
     A$ = "D" THEN PRINT :
     GOTO 4090
4040 IF A$ < > "W" THEN
     100
4045 IF BANK < 1 THEN
     PRINT "HA!◊GOOD◊TRY,◊"
     NAME$ "." : PRINT
     "UNFORTUNATELY,◊YOUR
     ◊ACCOUNT" : PRINT
     "BALANCE◊IS◊ZERO!" :
     GOTO 4002
4050 PRINT : PRINT
     "SHYLOCK◊SAYS,◊'WELL,◊
     YOU◊HAVE◊" ;BANK: PRINT
     "GOLD◊PIECES◊STORED◊
     WITH◊ME.◊HOW◊MANY◊DO" :
     INPUT "YOU◊WANT◊TO◊
     TAKE◊BACK?'◊>>◊" ;A$
4053 IF A$ = "" THEN 4003
4055 MNY = ABS ( INT ( VAL
     (A$))): IF MNY < = BANK
     THEN 4080
4070 GOSUB 1950: PRINT
     MNY; "!!!◊(GASP)" :
     PRINT : PRINT
     "THE◊BANKER◊THROWS◊YOU
     ◊A◊TERRIBLE◊GLANCE" :
     PRINT "AND◊SAYS,◊'THAT'S
     ◊MORE◊THAN◊YOU'VE◊GOT!"
4075 IF CH > 28 * RND (1)
     THEN 4002
4078 PRINT "YOU◊KNOW◊I◊
     DON'T◊MAKE◊LOANS◊TO
     ◊YOUR" : PRINT "KIND!◊'◊
     WITH◊THAT◊HE◊LOSES◊HIM
     SELF◊IN" : PRINT "THE◊
     CROWD." : GOTO 1999
4080 GOLD = GOLD +
     MNY:BANK: PRINT "THE◊
     BANKER◊HANDS◊YOU◊YOUR◊
     GOLD◊AND" : PRINT "SAYS,
     ◊'THAT◊LEAVES◊YOU◊WITH◊"
     ;BANK: PRINT "PIECES◊IN◊
     MY◊CARE.'◊◊HE◊SHAKES
     ◊YOUR" : PRINT
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     "HAND◊AND◊WALKS◊AWAY." :
     GOTO 1999
4090 GOSUB 1950: PRINT
     "SHYLOCK◊GETS◊A◊WIDE◊
     GRIN◊ON◊HIS◊FACE" :
     PRINT "AND◊SAYS,◊'EXCEL
     LENT!◊HOW◊MUCH◊DO◊YOU" :
     INPUT "WANT◊TO◊DEPOSIT?
     '◊>>◊" ;A$
4095 IF A$ = "" THEN 4003
4097 MNY = ABS ( INT ( VAL
     (A$))): IF MNY < = GOLD
     THEN 4120
4110 GOSUB 1950: PRINT
     "THE◊BANKER◊IS◊VERY◊
     PLEASED◊WHEN◊YOU" :
     PRINT "TELL◊HIM◊THE◊SUM,
     ◊BUT◊WHEN◊HE◊DISCOVERS"
     : PRINT "THAT◊YOU◊DON'T◊
     HAVE◊THAT◊MUCH◊ON◊YOU,"
4112 IF CH > 28 * RND (1)
     OR GOLD > 2999 THEN
     PRINT "HE◊HELPFULLY◊
     SUGGESTS◊YOU◊SETTLE◊FOR
     " : PRINT "A◊'MODEST'◊DEP
     OSIT◊OF◊" ;GOLD; "." :
     GOTO 4002
4113 PRINT "HE◊WALKS◊AWAY,
     ◊SHOUTING◊ABOUT◊FOOLS" :
     PRINT "WHO◊PLAY◊TRICKS◊
     ON◊'KNIDLY◊BANKERS'." :
     GOTO 1999
4120 GOLD = GOLD - MNY:
     BANK = BANK + MNY: GOSUB
     1950: PRINT "SHYLOCK◊TAK
     ES◊YOUR◊MONEY,◊PUTS◊IT
     ◊IN" : PRINT "HIS◊BAG,
     ◊LISTENS◊TO◊IT◊JINGLE,
     ◊THEN" : PRINT "THANKS
     ◊YOU◊AND◊WALKS◊AWAY." :
     GOTO 1999
5000 GOSUB 5004: GOSUB
     5010: GOSUB 5030
5002 VTAB 23: POKE -
     16368,0: PRINT "(HIT◊ANY
     ◊KEY◊TO◊CONTINUE)◊◊" ;:
     GET A$: PRINT : GOTO 100
5004 Q$ = "MIGHTY◊" : IF
     SEX$ = "F" THEN Q$ =
     "FAIR◊"
5005 HOME :Q$ = "THE◊" +
     Q$ + NAME$:I = INT ((32
     - LEN (Q$)) / 2): HTAB
     I: PRINT Q$; SPC( I);
     "LVL" ;XL: FOR I = 1 TO
     39: PRINT "_" ;: NEXT I:
     PRINT
5007 PRINT "EXPERIENCE:◊"
     ;XE;: HTAB 20 + (XE >
     99999): PRINT "ADVENT
     URES:◊" ;XN: PRINT "ATTR
     IBUTES:◊HD=" ;HD; "◊◊AG="
     ;AG; "◊◊CH=" ;CH: PRINT
5008 PRINT "GOLD◊IN◊HAND="
     ;GOLD; ",◊BANK=" ;BANK:
     PRINT
5009 RETURN
5010 PRINT "MAGIC◊SKILLS:
     ◊" ;:SM = 0
5015 FOR S = 1 TO 4: IF
     SA%(S) THEN PRINT MID$ (
     "BLAST◊HEAL◊SPEED◊POWER"
     ,(S - 1) * 5 + 1,5); "◊"
     ;:SM = 1
5017 NEXT S: IF NOT SM
     THEN PRINT "◊ZILCH!" :
     PRINT : GOTO 5025
5020 PRINT : PRINT SPC(
     12);: FOR S = 1 TO 4: IF
     SA%(S) THEN PRINT SPC(
     3);SA%(S); "%" ;
5022 NEXT S: PRINT : PRINT
5025 RETURN
5030 PRINT "YOUR◊WEAPON◊
     ABILITIES◊ARE--" : PRINT
     "◊◊AXE◊◊◊BOW◊◊◊CLUB◊
     ◊SPEAR◊◊SWORD"
5035 FOR I = 1 TO 5: PRINT
     SPC(1+(I = 3)-(WA%(I) <
     0)+ ( ABS (WA%(I)) < 100))
     ;WA%(I); "%◊" ;: NEXT I:
     PRINT : PRINT
5040 A2 = INT (AC / 2):Q$
     = MID$ ( "SKIN◊◊◊LEATHER
     CHAIN◊◊PLATE◊◊" ,A2 * 7
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     + 1,7): FOR I = 1 TO 7:
     IF MID$ (Q$,I,1) < > "◊"
     THEN NEXT I
5043 Q$ = LEFT$ (Q$,I - 1)
5045 PRINT "ARMOUR:◊" Q$;:
     IF AC > A2 * 2 THEN SH =
     1: PRINT "◊&◊SHIELD" ;
5050 PRINT TAB( 26); "AE="
     ;AE; "%◊AC=" ;AC: PRINT
5060 PRINT "WEAPONS" ; TAB(
     23); "COMPLEX◊DAMAGE"
5080 FOR I = 1 TO 4:Q =
     ABS (WO%(I)): PRINT
     WN$(I);: HTAB (24 -
     (WO%(I) < 0) + (Q < 10)
     + (Q < 100)): PRINT
     WO%(I); "%◊◊◊◊" ;WD%(I);
     "◊D◊" ;WS%(I): NEXT I
5095 RETURN
5499 REM ///LOCKERS
5500 GOSUB 1940: GOTO 5505
5502 GOSUB 1998
5503 GOSUB 1940: GOTO 5515
5505 PRINT "THE◊LOCKER◊
     ATTENDANT◊GREETS◊YOU:◊
     'GOOD" : PRINT "AFTER
     NOON,◊" NAME$ "!'" : IF
     LQ THEN 5514
5506 IF XL > 6 AND GOLD >
     6999 THEN 5511
5507 PRINT : PRINT "'COME
     ◊BACK◊AS◊SOON◊AS◊YOU"
5508 IF XL > 6 THEN 5510
5509 PRINT "REACH◊LEVEL◊7.
     ◊REMEMBER,◊THE◊PRICE◊IS"
     : PRINT "JUST◊7000◊GOLD
     ◊FOR◊A◊ROOMY◊LOCKER!'" :
     GOTO 1999
5510 IF GOLD < 7000 THEN
     PRINT "HAVE◊THE◊7000◊
     GOLD◊TO◊PURCHASE" :
     PRINT"YOUR◊OWN◊LOCKER.'"
     : GOTO 1999
5511 PRINT : PRINT "ARE◊
     YOU◊READY◊TO◊BUY◊A◊
     SPACE?(Y/N)◊" ;: GET
     Q$: PRINT Q$: IF Q$ < >
     "Y" THEN 1999
5513 PRINT : PRINT
     "'EXCELLENT!◊" ;:GOLD =
     GOLD - 7000: FOR I = 1
     TO 8:LN$(I) = "NONE" :
     NEXT I:LQ = 1: PRINT
     "YOUR◊LOCKER◊IS◊READY.'"
5514 PRINT "YOU◊SMILE,◊
     PICK◊UP◊YOUR◊KEY," :
     PRINT "AND◊GO◊TO◊YOUR◊
     LOCKER." : GOTO 5502
5515 PRINT "DO◊YOU◊STORE◊
     AN◊ITEM◊OR◊RETRIEVE
     ◊ONE?" : PRINT "◊(SPC
     ◊TO◊EXIT◊OR◊S,◊R)◊" ;:
     GET A$: PRINT A$: GOSUB
     1940: IF A$ < > "S" THEN
     5540
5525 INPUT "STORE◊WHICH
     ◊ITEM?◊" ;Q$: GOSUB
     1945:ZW = I: IF Q$ = ""
     OR Q$ = "NONE" THEN 5503
5527 IF ZW < 5 THEN 5533
5530 GOSUB 1940: PRINT
     "YOU◊HAVE◊NO◊" Q$ "'!"
     : GOTO 5502
5533 Q$ = "NONE" : GOSUB
     1947:ZX = I: IF ZX < 9
     THEN 5550
5535 INPUT "SWAP◊FOR◊
     WHAT◊ITEM?" ;Q$: GOSUB
     1947:ZX = I: IF ZX < 9
     THEN 5550
5537 GOSUB 1940: PRINT
     "NO◊" Q$ "'◊IS◊IN◊STOR
     AGE!" : GOTO 5502
5540 IF A$ < > "R" THEN
     PRINT "'COME◊BACK◊
     ANYTIME!'" : GOTO 1999
5542 INPUT "GET◊WHICH◊
     ITEM?◊" ;Q$: GOSUB
     1947:ZX = I: IF Q$ = ""
     OR Q$ = "NONE" THEN 5503
5543 IF ZX > 8 THEN 5537
5545 Q$ = "NONE" : GOSUB
     1945:ZW = I: IF ZW < 5
     THEN 5550
5547 INPUT "SWAP◊FOR◊
     WHAT◊ITEM?◊" ;Q$: GOSUB
```

```
1945:ZW = I: IF ZW > 4
     THEN 5530
5550 LN$(0) = WN$(ZW): LT%
     (0) = WT%(ZW): LO%(0) =
     WO%(ZW): LD%(0) = WD%
     (ZW):LS%(0) = WS%(ZW)
5552 WN$(ZW) = LN$(ZX):
     WT%(ZW) = LT%(ZX): WO%
     (ZW) = LO%(ZX): WD%(ZW)
     = LD%(ZX): WS%(ZW) =
     LS%(ZX)
5555 LN$(ZX) = LN$(0):LT%
     (ZX) = LT%(0): LO%(ZX) =
     LO%(0):LD%(ZX) = LD%(0)
     :LS%(ZX) = LS%(0)
5557 IF WN$(ZW) = "NONE"
     THEN GOSUB 1920: GOTO
     5580
5559 Q$ = WN$(ZW)
5560 FOR I = 1 TO 4: IF I
     = ZW THEN 5570
5565 IF Q$ < > WN$(I) THEN
     5570
5567 IF RIGHT$ (Q$,1) =
     "#" THEN Q$ = LEFT$ (Q$,
     LEN (Q$) - 1) + CHR$ (65
     + INT ( RND (1) * 25)):
     GOTO 5560
5568 Q$ = Q$ + "#" : GOTO
     5560
5570 NEXT I:WN$(ZW) = Q$
5580 IF LN$(ZX) = "NONE"
     THEN 5503
5583 Q$ = LN$(ZX)
5585 FOR I = 1 TO 8: IF I
     = ZX THEN 5595
5587 IF Q$ < > LN$(I) THEN
     5595
5590 IF RIGHT$ (Q$,1) =
     "#" THEN Q$ = LEFT$ (Q$,
     LEN (Q$) - 1) + CHR$ (65
     + INT ( RND (1) * 25)):
     GOTO 5585
5592 Q$ = Q$ + "#" : GOTO
     5585
5595 NEXT I:LN$(ZX) = Q$:
     GOTO 5503
6000 HOME : VTAB 11
6007 PRINT "AS◊YOU◊LEAVE◊
     THE◊HALL,◊THE◊IRISHMAN"
     : PRINT "COMES◊UP◊TO◊YOU
     ,◊SLAPS◊YOU◊ON◊THE◊BACK"
     : PRINT "AND◊SAYS,◊'Y'ALL
     ◊COME◊BACK◊REAL◊SOON," :
     PRINT "YA◊HEAH?'"
6010 PRINT DK$; "OPEN◊CHAR
     ACTERS,L150" : PRINT DK$;
     "WRITE◊CHARACTERS,R"
     ;REC : GOSUB 200: PRINT
     DK$; "CLOSE"
6015 GOSUB 300
6020 PRINT DK$; "DELETE◊
     THE◊ADVENTURER"
6030 END
7000 PRINT DK$ "CLOSE" :
     PRINT "EXIT◊ON◊" ; PEEK
     (222); "◊@◊" ; PEEK
     (218) + 256 * PEEK
     (219); "."
7017 IF PEEK (222) < > 5
     THEN PRINT : PRINT
     "KEY◊>>◊" ;: GET Q$:
     PRINT Q$
7019 PRINT CHR$ (4); "RUN◊
     THE◊WONDERFUL◊WORLD◊OF
     ◊EAMON"
7020 END
8000 Q9 = 0:F$ = "" : FOR
     I = 4 TO 8:F$ = F$ +
     CHR$ ( PEEK (512 + I) -
     128): NEXT I
8010 IF F$ < > "◊◊◊MA"
     THEN Q9 = 1
8090 RETURN
8099 REM START ADV (SAVE
     NAME)
8100 L = 43382: POKE L -
     1,40:F$ = ADNAME$:L9 =
     LEN (F$): IF L9 < 7 THEN
     8130
8110 IF LEFT$ (F$,4) =
     "THE◊" THEN L9 = L9 -
     4:F$ = RIGHT$ (F$,L9)
8130 POKE L,L9: FOR I = 1
     TO L9
```

```
8140 POKE L + I, ASC (
     MID$ (F$,I,1)): NEXT I
8150 RETURN
```

Checksums

0-$92CC		16-$38F1	50-$14B5
1-$DB99		17-$C92D	60-$D925
2-$9F59		20-$3B18	70-$E13E
3-$7A8F		30-$24AD	73-$B3D0
4-$C15F		35-$1F66	75-$6D88
5-$8CAA		37-$678F	77-$9353
7-$CF81		38-$656C	80-$3CDA
8-$142B		40-$E6B4	90-$3B3C
9-$C02D		42-$B354	100-$2227
10-$7A8F		49-$6769	102-$39C8

EXP.UPDATE

```
10 REM EXP.UPDATE 9/92:
   CALC/RECORD EXPERIENCE &
   LEVEL AFTER AN ADVENTURE
20 REM BY JEFF HURLBERT
   (COMPUTIST MAGAZINE)
   713-645-8680
100 DIM E$(300),N%(300),
    P(8)
110 DIM TA%(4),XA%(5),XNA
    ME$(4),XTYPE%(4),XODDS%
    (4),XDICE%(4),XSIDES%(4)
120 DIM SA%(4),WA%(5),WNA
    ME$(4),WTYPE%(4),WODDS%
    (4),WDICE%(4),WSIDES%(4)
130 PRINT :DK$ = CHR$ (4)
140 PRINT DK$ "OPEN◊THE
    ◊ADVENTURER" : PRINT DK$
    "READ◊THE◊ADVENTURER" :
    INPUT NA$: INPUT REC:
    PRINT DK$ "CLOSE"
150 Q$ = NA$ + ".PRE" :
    PRINT DK$ "OPEN" Q$:
    PRINT DK$ "READ" Q$:
    INPUT NA$: INPUT HV, AV,
    CV: FOR I = 1 TO 4:
    INPUT TA%(I): NEXT I:
    FOR I = 1 TO 5: INPUT
    XA%(I): NEXT I: INPUT
    VAE
160 INPUT SEX$
170 INPUT OGOLD, BANK:
    INPUT OAC: FOR I = 1 TO
    4: INPUT XN$(I),XT%(I),
    XO%(I),XD%(I),XS%(I):
    NEXT I: PRINT DK$
    "CLOSE" : PRINT DK$
    "DELETE" Q$
180 PRINT DK$ "OPEN◊CHAR
    ACTERS,L150" : PRINT DK$
    "READ◊CHARACTERS,R" ;REC
    : INPUT NA$: INPUT HD,AG
    ,CH: FOR I = 1 TO 4:
    INPUT SA%(I): NEXT I:
    FOR I = 1 TO 5: INPUT
    WA%(I): NEXT I: INPUT AE
190 INPUT SEX$
200 INPUT GOLD, BANK: INPUT
    AC: FOR I = 1 TO 4:
    INPUT WN$(I),WT%(I),WO%
    (I),WD%(I),WS%(I): NEXT
    I: PRINT DK$ "CLOSE"
210 REM (GET ADV NAME)
220 L = 43382: IF PEEK (L
    - 1) = 40 THEN 270
230 HOME : VTAB 5: PRINT
    "THE◊SECRETARY◊OF◊HALL◊
    RECORDS◊LOOKS" : PRINT
    "AT◊YOUR◊PRINTOUT◊AND◊
    SIGHS.◊'FOR◊SOME"
240 PRINT : PRINT "REASON,'◊SHE◊
    SAYS,◊'THE◊NAME◊OF◊YOUR"
    : PRINT "LATEST◊QUEST
    WAS◊NOT◊SENT◊IN.'"
250 PRINT : PRINT "<PLEASE
    ◊RE-INSERT◊ADVENTURE◊
    DISKETTE>◊" ;: GET Q$:
    PRINT
252 ONERR GOTO 267
260 PRINT DK$ "UNLOCK◊
    EAMON.NAME" : PRINT DK$
    "OPEN◊EAMON.NAME" :
    PRINT DK$ "READ◊EAMON
    .NAME" : INPUT F$: PRINT
    DK$ "CLOSE"
262 IF LEFT$ (F$,4) =
    "THE◊" THEN F$ = RIGHT$
    (F$, LEN (F$) - 4)
263 PRINT : PRINT "'AH!◊
    HERE◊IT◊IS.'" : PRINT
265 GOTO 268
267 PRINT DK$ "CLOSE" :
    HOME : VTAB 5: PRINT
    "'HMMMM...◊NO◊HELP◊THE
    RE.◊I'LL◊JUST" : PRINT
    "CALL◊IT:◊ADVENTURE◊X!'"
    :F$ = "ADVENTURE◊X"
268 PRINT : PRINT "<PLEASE
    ◊INSERT◊MAIN◊HALL◊DISK
    ETTE>◊" ;: GET Q$: PRINT
    : GOTO 290
270 L9 = PEEK (L):F$ = ""
    : FOR I = 1 TO L9:F$ =
    F$ + CHR$ ( PEEK (L +
    I))
280 NEXT I: POKE L - 1,32
290 POKE 216,0:Z$ = NA$ +
    ".EXP"
300 ONERR GOTO 520
310 PRINT DK$ "UNLOCK" Z$
320 PRINT DK$ "OPEN" Z$
330 PRINT DK$ "READ" Z$
340 FOR I = 0 TO 8: INPUT
    P(I): NEXT I
350 FOR I = 1 TO P(0):
    INPUT E$(I),N%(I): NEXT
    I
360 PRINT DK$ "CLOSE" :
    POKE 216,0
370 FOR I = 1 TO P(0): IF
    E$(I) < > F$ THEN NEXT
    I: GOTO 390
380 N%(I) = N%(I) + 1:
    GOTO 410
390 IF I > 300 THEN I =
    300
400 N%(I) = 1:E$(I) =
    F$:P(0) = I
410 POKE 216,0:NZ = N%(I):
    GOSUB 540: GOSUB 670:
    GOSUB 910
420 PRINT DK$ "OPEN" Z$:
    PRINT DK$ "WRITE" Z$
430 FOR I = 0 TO 8: PRINT
    P(I): NEXT I
440 FOR I = 1 TO P(0):
    PRINT E$(I): PRINT
    N%(I): NEXT I
450 PRINT DK$ "CLOSE"
460 HOME : PRINT "ADVENT
    URES◊OF◊" NA$: PRINT
470 PRINT "LEVEL:◊" ;P(2);
    "◊◊◊◊EXPERIENCE:◊" ;P(1):
    FOR I = 1 TO 39: PRINT
    "_" ;: NEXT I: PRINT
480 POKE 34,4: VTAB 5
490 FOR I = 1 TO P(0):
    PRINT E$(I); SPC( 31 -
    LEN (E$(I)));N%(I);
    LEFT$ ( "◊TIMES" ,6 -
    (N%(I) = 1)): NEXT I
500 POKE 34,0: PRINT :
    PRINT "ANY◊KEY>>◊" ;:
    GET Q$: PRINT : PRINT
    DK$ "RUN◊◊◊MAIN◊HALL"
510 END
520 P(0) = 1:E$(1) =
    F$:N%(1) = 1:I = 1: GOTO
    410
530 REM ...CHANGE FILTER
540 PRINT :L = 0:Q = HD -
    HV:J = 5 - 3 * (HV > 13)
    - (HV > 25): IF ABS (Q)
    > J THEN HD = HV + J *
    SGN (Q): GOSUB 640
550 Q = AG - AV:J = 5 - 3
    * (AV > 13) - (AV > 25):
    IF ABS (Q) > J THEN AG =
    AV + J * SGN (Q): GOSUB
    640
560 Q = CH - CV:J = 5 - 3
    * (CV > 13) - (CV > 25):
    IF ABS (Q) > J THEN CH =
    CV + J * SGN (Q): GOSUB
    640
570 FOR I = 1 TO 4:Q =
    SA%(I) - TA%(I):J = 11 -
    4 * (TA%(I) > 25) - 3 *
    (TA%(I) > 50) - 2 *
    (TA%(I) > 80): IF ABS
    (Q) > J THEN SA%(I) =
    TA%(I) + J * SGN (Q):
    GOSUB 640
580 NEXT I
590 FOR I = 1 TO 5:Q =
    WA%(I) - XA%(I):J = 15 -
    5 * (XA%(I) > 25) - 4 *
    (XA%(I) > 50) - 3 *
    (XA%(I) > 80): IF ABS
    (Q) > J THEN WA%(I) =
    XA%(I) + J * SGN (Q):
    GOSUB 640
600 NEXT I
610 Q = AE - VAE:J = 20 -
    10 * (VAE > 30) - 5 *
    (VAE > 50) - 3 * (VAE >
    75): IF ABS (Q) > J THEN
    AE = VAE + J * SGN (Q):
    GOSUB 640
620 L9 = L: IF L THEN
    PRINT : PRINT
630 RETURN
640 L = L + 1: PRINT "*"
    CHR$ (48 + L) "◊" ;:
    RETURN
650 REM ...CALC EXPERIENCE
660 REM GOLD DIF
670 DG = GO - OG: IF DG <
    0 THEN DG = 0
680 IF DG = 0 THEN 720
690 Q = 0: IF DG > 100000
    THEN Q = INT ((DG -
    100000) / 100000): IF Q
    > 9 THEN Q = 9
700 DG = Q + INT (DG /
    200): IF DG < 1 THEN DG
    = 1
710 REM WEAP DIF
720 DW = 0: FOR I = 1 TO 4
730 IF WN$(I) < > XN$(I)
    OR WT%(I) < > XT%(I) OR
    WO%(I) < > XO%(I) OR
    WD%(I) < > XD%(I) OR
    WS%(I) < > XS%(I) THEN
    DW = 1: GOTO 760
740 NEXT I: GOTO 800
750 REM BETTER WEAP
760 BW = 0: FOR I = 1 TO 4
770 FOR J = 1 TO 4: IF
    (WO%(I) > XO%(J)) OR
    (WD%(I) + WS%(I) >
    XD%(J) + XS%(J)) THEN
    NEXT J:BW = BW + 1
780 NEXT I
790 REM ATTRIB DIF
800 DA = (HV < > HD) + (AV
    < > AG) + (CV < > CH)
810 REM SPELL DIF
820 DS = 0: FOR I = 1 TO
    4:DS = DS + (SA%(I) < >
    TA%(I)): NEXT I
830 REM WEAPSKILL DIF
840 DF = 0: FOR I = 1 TO
    5:DF = DF + ABS (WA%(I)
    - XA%(I)): NEXT I
850 REM ARMOR DIF
860 DZ = ABS (AC - OA) +
    ABS (AE - VA)
870 QE = (DA * 50) + (DZ *
    11) + (DW * 3) + (BW * 25)
    + (DS * 33) + (DF * 7)
880 QE = QE + 3 * INT (DG
    / NZ) + (DG > 0)
890 RETURN
900 REM ...LEVEL ADVANCE
910 W = P(2):QE = P(1) +
    QE:J = QE
920 I = 0:L = 0
930 I = I + 100:Q = INT (J
    / I): IF Q > = 16 THEN L
    = L + 16:J = J - (I *
    16): GOTO 930
940 L = L + Q: IF L - W <
    3 THEN 1010
950 REM (ADJUST OVER-EXP)
960 PRINT : PRINT "*" ;QE;
    "◊*" ;L; "◊" ;:I = 0:J =
    0:L = W + 2
970 I = I + 100:Q = INT (L
    / 16): IF Q > = 1 THEN J
    = J + 16 * I:L = L - 16:
    GOTO 970
980 J = J + L * I:L = 18
990 Q = (QE - J) / L:
    PRINT "*" ;: IF Q > I /
    2 THEN L = L + L: GOTO
    990
1000 QE = J + INT (Q + Q /
     3):L = W + 2
1010 P(1) = QE:P(2) = L
1020 PRINT : PRINT
1030 IF P(2) > W THEN 1060
1040 IF L9 > 0 THEN 1150
1050 GOTO 1180
1060 HOME : PRINT NA$
     "◊ADVANCES◊A◊LEVEL!!" :
     PRINT CHR$ (7): PRINT :
     PRINT "◊<KEY>◊" ;: GET
     Q$: PRINT
1070 HOME : RESTORE
1080 PRINT "[A]◊HARDINESS"
     ;: HTAB 17: PRINT HD:
     PRINT "[B]◊AGILITY" ;:
     HTAB 17: PRINT AG: PRINT
     "[C]◊CHARISMA" ;: HTAB
     17: PRINT CH
1090 FOR I = 1 TO 5: READ
     Q$: PRINT "[" ; CHR$ (67
     + I); "]◊" ;Q$;: HTAB
     17: PRINT SPC( WA%(I) <
     10 AND WA%(I) > -
     1);WA%(I): NEXT I
1100 FOR I = 1 TO 4: READ
     Q$: PRINT "[" ; CHR$ (72
     + I); "]◊" ;Q$;: HTAB
     17: PRINT SPC( SA%(I) <
     10);SA%(I): NEXT I
1110 PRINT : VTAB 16:
     PRINT "SELECT◊ATTRIBUTE
     ◊OR◊SKILL◊TO◊ENHANCE:◊"
     ;: GOSUB 2000: PRINT Q$:
     GOSUB 2000
1120 PRINT : IF Q = 99
     THEN 1070
1130 VTAB X: HTAB 25:
     PRINT I; "◊<<◊DONE◊" ;:
     GET Q$: VTAB 16: HTAB 1:
     PRINT : PRINT
1140 W = W + 1: IF P(2) >
     W THEN 1060
1150 PRINT DK$ "OPEN◊CHAR
     ACTERS,L150" : PRINT DK$
     "WRITE◊CHARACTERS,R"
     ;REC
1160 PRINT NA$: PRINT HD:
     PRINT AG: PRINT CH: FOR
     I = 1 TO 4: PRINT
     SA%(I): NEXT I: FOR I =
     1 TO 5: PRINT WA%(I):
     NEXT I: PRINT AE: PRINT
     SEX$
1170 PRINT GOLD: PRINT
     BANK: PRINT AC: FOR I =
     1 TO 4: PRINT WN$(I):
     PRINT WT%(I): PRINT
     WO%(I): PRINT WD%(I):
     PRINT WS%(I): NEXT I:
     PRINT DK$ "CLOSE"
1180 RETURN
2000 Q = ASC (Q$) - 64: IF
     Q < 1 OR Q > 12 THEN
     2120
2010 X = Q: ON Q GOTO
     2020,2030,2040,2050,2050
     ,2050,2050,2080,2080,
     2080,2080,2080
2020 HD = HD + 1:I = HD:
     RETURN
2030 AG = AG + 1:I = AG:
     RETURN
2040 CH = CH + 1:I = CH:
     RETURN
2050 Q = Q - 3: IF WA%(Q)
     > = 100 THEN 2110
2060 WA%(Q) = WA%(Q) + 3 -
     (WA%(Q) > 66) * 2 + INT
     ( RND (1) * 3): IF
     WA%(Q) > 100 THEN WA%(Q)
     = 100
2070 I = WA%(Q): RETURN
2080 Q = Q - 8: IF SA%(Q)
     < 1 OR SA%(Q) > 99 THEN
     2110
2090 SA%(Q) = SA%(Q) + 4 +
     INT ( RND (1) * 4): IF
     SA%(Q) > 100 THEN SA%(Q)
     = 100
2100 I = SA%(Q): RETURN
2110 PRINT
     "NOT◊ALLOWED!◊>>◊" ;:
     GET Q$: PRINT
2120 Q = 99: RETURN
2130 DATA AXE,BOW,CLUB,
     SPEAR,SWORD,BLAST,HEAL,
     SPEED,POWER
```

Checksums

10-$BADD	460-$B08D	900-$A429
20-$9B13	470-$BCD7	910-$5120
100-$54E7	480-$A21E	920-$93AC
110-$9D2C	490-$0DE9	930-$0C4C
120-$D711	500-$B016	940-$2AAF
130-$6820	510-$B49E	950-$2E31
140-$7108	520-$6BB4	960-$85E5
150-$0329	530-$C359	970-$71F6
160-$0514	540-$6C0F	980-$EE7F
170-$15A9	550-$8A6A	990-$3845
180-$5F2D	560-$953F	1000-$A42B
190-$C13F	570-$4795	1010-$1EC7
200-$AC6E	580-$0D4A	1020-$4D9B
210-$4CD4	590-$E98B	1030-$A373
220-$7959	600-$DD2C	1040-$ABCA
230-$191B	610-$3E28	1050-$3E10
240-$93E6	620-$DC4B	1060-$605C
250-$2BD0	630-$EBB7	1070-$5223
252-$702A	640-$B365	1080-$A2C3
260-$A1BA	650-$F63F	1090-$D7A5
262-$2BDF	660-$94E9	1100-$7EA0
263-$BA40	670-$0B87	1110-$BCF0
265-$B71B	680-$EABF	1120-$52ED
267-$567A	690-$7172	1130-$2EDC
268-$3E10	700-$09A3	1140-$7512
270-$AF5B	710-$C85F	1150-$B2DB
280-$6454	720-$4F50	1160-$FBCC
290-$5C0C	730-$64E0	1170-$0B50
300-$DE22	740-$F0EA	1180-$83AD
310-$FD8F	750-$CD94	2000-$C1AB
320-$0FA8	760-$9262	2010-$5644
330-$EAF2	770-$047C	2020-$DD92
340-$5DA7	780-$CB3D	2030-$0163
350-$5FFF	790-$7C60	2040-$B538
360-$56EE	800-$8585	2050-$E592
370-$901A	810-$A400	2060-$2499
380-$FAAC	820-$59CE	2070-$B277
390-$F7D4	830-$7318	2080-$5040
400-$BD6C	840-$139F	2090-$6904
410-$F1FA	850-$8636	2100-$D4AE
420-$87AD	860-$C8EF	2110-$FFFE
430-$8D37	870-$1853	2120-$683E
440-$3B25	880-$21FD	2130-$6A9E
450-$3DC9	890-$5FCD	

NUEDIT.792

```
0 REM NUEDIT.792 IS AN
  EDITOR FOR "NEW FORMAT"
  EAMON GAME MOD & DESIGN
  9/5/92
1 REM BY JEFF HURLBERT
  (USES MOD OF DON BROWN
  ROUTINE @ LINES 280-310)
2 PRINT CHR$(4)
  "MAXFILES◊5"
3 D$ = CHR$ (4):RE$ = CHR$
  (4)+"READ◊EAMON.DESC,R"
  :WE$ = CHR$ (4) + "WRITE
  ◊EAMON.DESC,R" :OE$=CHR$
  (4) + "OPEN◊EAMON." :CC$
  = CHR$ (4) + "CLOSE" :NX
  = 200:NF = 7:MF = 4:TZ =
  15:PZ = 6:FM = 10
4 DIM N%(NF),DR%(11),D$
  (11),M$(10),M%(10),TY$
  (TZ),TF(TZ),LO$(6),AF$
  (FM,4),WT$(1,6),R%(11),
  F$(NF)
5 FOR I = 1 TO NF: READ
  F$(I): NEXT I: FOR I = 1
  TO 11: READ D$(I): NEXT
  I
6 FOR I = 0 TO TZ: READ
  TY$(I),TF(I): NEXT I:
  FOR I = 0 TO 6: READ LO$
  (I): NEXT I: FOR I = 0
  TO FM: FOR J = 0 TO 3:
  READ AF$(I,J): NEXT J:
  NEXT I: FOR I = 0 TO 1:
  FOR J = 0 TO PZ: READ
  WT$(I,J): NEXT J: NEXT
  I: FOR I = 0 TO 10: READ
  M$(I): NEXT I
7 FOR I = 700
9 V = 1: PRINT "#◊" ;: IF
  QC<= MF THEN PRINT "C◊";
12 PRINT "<-◊-◊◊Z=ED◊SPC
  =EXIT:◊" ;: GET Q$:I =
  ASC (Q$): IF I = 13 OR
```

```
OR ASC (ND$) = 27 THEN
  980
203 ND = VAL (ND$): IF ND
  < > 6 AND ND < > 10 THEN
  980
204 ND$ = STR$ (ND):DV$ =
  "7.0"
205 GOSUB 90
208 LR = 72:LM = 92:LA =
  72: FOR I = 1 TO MF:
  N%(I) = 0: NEXT I: GOSUB
  71: GOSUB 72: GOSUB 73:
  GOSUB 74:PX = 1: FOR QC
  = 1 TO MF: GOSUB 93:
  NEXT QC
210 GOTO 747
219 REM **NAME CHANGE**
220 HOME : PRINT DU$ "/◊"
  ND$ "/◊" DV$: VTAB 2:I$
  = DU$: PRINT : INPUT
  "NEW◊NAME:◊" ;Q$: IF Q$
  = "" THEN 770
225 I = LEN (Q$): IF I >
  30 OR I < 3 THEN PRINT
  "LEN◊ERROR◊>◊" ;: GET
  Q$: PRINT : GOTO 220
240 DU$ = Q$: GOSUB 90
242 ONERR GOTO 255
244 PRINT DU$ "UNLOCK" I$:
  PRINT D$ "RENAME" I$ ","
  DU$
255 POKE 216,0: GOTO 770
259 REM *LOC LABEL*
260 LK = (RO > 500) + 2 *
  (RO > 200 AND RO < 500)
  + 3 * (RO > - 999 AND RO
  < - 1) + 4 * (RO = - 1)
  + 5 * (RO = - 999) + 6 *
  (RO = 0): HTAB 1: CALL -
  958: PRINT "LOCATION◊("
  LO$(LK) "):" ;: HTAB 30:
  PRINT RO;: RETURN
278 REM ** ROUTINE TO
  INPUT I$, HAVING BEEN
  PASSED I2$ **
280 I$ = "" : IF I2$ = ""
  THEN I2$ = "MSG◊GOES◊
  HERE"
282 PRINT I2$;: CALL -958:
  FOR A = 1 TO LEN (I2$):
  PRINT CHR$(8);: NEXT
283 GET A$:J = ASC (A$):
  IF J = 13 THEN CALL -
  958: IF I$ = "" THEN I$
  = I2$: PRINT I2$: RETURN
284 IF J = 13 THEN PRINT :
  RETURN
285 IF J > 31 AND LEN (I$)
  > = TL THEN PRINT CHR$
  (7);: GOTO 283
286 IF J = 9 AND LEN (I$)
  > = TL THEN PRINT CHR$
  (7);: GOTO 283
288 IF J > 31 THEN PRINT
  A$;:I$ = I$ + A$:I2$ =
  MID$ (I2$,2): GOTO 283
290 IF J = 5 THEN PRINT
  I2$;:I$ = I$ + I2$:I2$ =
  "" : GOTO 283
292 IF J = 2 AND LEN (I$)
  THEN FOR A = 1 TO LEN
  (I$): PRINT CHR$ (8);:
  NEXT A:I2$ = I$ + I2$:I$
  = "" : GOTO 283
294 IF J = 4 THEN I2$ =
  MID$ (I2$,2): GOTO 282
296 IF J = 9 THEN I2$ =
  "◊" + I2$: IF LEN (I$) +
  LEN (I2$) > = TL THEN
  I2$ = LEFT$ (I2$, LEN
  (I2$) - 1)
297 IF J = 9 THEN 282
298 IF J = 21 AND LEN
  (I2$) THEN A$ = LEFT$
  (I2$,1):J = ASC (A$):
  GOTO 285
300 IF J = 21 THEN A$ =
  "◊" :J = ASC (A$): GOTO
  285
302 IF J = 8 AND LEN (I$)
  > 1 THEN I2$ = RIGHT$
  (I$,1) + I2$:I$ = LEFT$
  (I$, LEN (I$) - 1):
  PRINT A$;: GOTO 283
304 IF J = 8 AND LEN (I$)
  > 0 THEN I2$ = I$ +
```

```
Q$ = "◊" THEN PRINT :
  POP : GOTO 770
15 IF Q$ < > "#" AND Q$ <
  > "C" THEN 33
18 Z$ = "" : IF Q$ = "C"
  AND QC < = MF THEN Z$ =
  "COPY◊TO◊"
21 PRINT Q$: VTAB 23: CALL
  - 958: PRINT Z$F$(QC)
  "#◊(1-" ;NT; : INPUT
  ")◊" ;Q$: IF Q$ = ""
  THEN POP : GOTO 770
24 I = 1:Q = VAL (Q$): IF
  Q > 0 AND Q < = NT THEN
  N2 = Q:I = 2
27 IF Z$ = "" OR I = 1 OR
  QC > MF THEN RETURN
30 GOSUB 61: RETURN
33 N2 = N2 - (N2 > 1) * (I
  = 8) + (N2 < NT) * (I =
  21):I = (I = 8) + (I =
  21)
36 IF Q$ = "Z" THEN V = 0
37 IF ASC (Q$) < 32 THEN
  Q$ = "-"
39 PRINT Q$: RETURN
49 REM **READ ARTIF INFO**
50 PRINT RE$;N2 + NX:
  INPUT AD$
51 PRINT D$ "READ◊EAMON
  .ARTIFACTS, R" ;N2: INPUT
  AN$,VL,TY,WT,RO: FOR I =
  0 TO 3: INPUT PA(I):
  NEXT I: PRINT D$: RETURN
57 REM WR.CHANGE
58 GOSUB 64: IF Q$ = "Y"
  THEN 61
59 VTAB 23: PRINT "REDO?◊
  (Y/N)◊" ;: GET Q$: PRINT
  Q$: IF Q$ = "Y" THEN Q$
  = "R" : RETURN
60 Q$ = "X" :V = 1: RETURN
61 ON QC GOSUB 110,135,
  160,175: PRINT D$
62 V = 1:Q$ = "S" : RETURN
63 PRINT "RMS=" ;N%(1);
  "◊ART=" ;N%(2); "◊EFF="
  ;N%(3); "◊MONS=" ;N%(4):
  RETURN
64 VTAB 23: PRINT "◊SAVE◊
  (Y/N)◊" ;: GET Q$: IF Q$
  < > "Y" THEN Q$ = "N"
65 PRINT Q$: RETURN
66 FOR I = 1 TO 6: HTAB (6
  + I * 5 - (DR%(I) < 0)):
  PRINT DR%(I);: NEXT I:
  PRINT : RETURN
70 REM **OPENS**
71 PRINT OE$ "ARTIFACTS,L"
  ;LA: RETURN
72 PRINT OE$ "DESC,L242" :
  RETURN
73 PRINT OE$ "MONSTERS,L"
  ;LM: RETURN
74 PRINT OE$ "ROOMS,L"
  ;LR: RETURN
75 PRINT OE$ "NAME" :
  RETURN
76 REM **READ ROOM INFO**
77 PRINT RE$;N2: INPUT R2$
78 PRINT D$ "READ◊EAMON
  .ROOMS,R" ;N2: INPUT
  R1$: FOR I = 1 TO ND:
  INPUT DR%(I): NEXT I:
  INPUT LT: PRINT D$
79 RETURN
80 REM **READ DESC PARMS**
81 GOSUB 72: PRINT RE$;0:
  FOR I = 1 TO 4: INPUT
  N%(I): NEXT I: INPUT
  LR,LM,LA: PRINT D$:
  RETURN
87 REM **WRITE DESC
  PARMS**
88 GOSUB 72: PRINT WE$;0:
  FOR I = 1 TO 4: PRINT
  N%(I): NEXT I: PRINT LR:
  PRINT LM: PRINT LA:
  PRINT D$: RETURN
89 REM **WR.NAME**
90 GOSUB 75: PRINT D$
  "WRITE◊EAMON.NAME" :
  PRINT DU$: PRINT ND$:
  PRINT DV$: PRINT CC$:
  RETURN
91 REM MAKE.NEW
```

```
92 ON QC GOSUB 105,125,
  155,170
93 FOR K = 1 TO PX: IF
  N%(QC) > = NX THEN 97
94 N%(QC) = N%(QC) + 1:N2
  = N%(QC): VTAB 23: PRINT
  "CREATING◊" F$(QC) "◊#"
  ;N2; ".◊◊"
95 N2$ = STR$ (N2): ON QC
  GOSUB 107,127,157,173:
  PRINT D$
96 NEXT K
97 PRINT D$: GOSUB 88:V =
  1: RETURN
98 REM OPEN ARTIF & RM
99 GOSUB 71
100 REM MK.ROOM
105 GOSUB 74: GOSUB 72:
  RETURN
107 R1$ = "ZILCH◊ROOM" +
  Q$:R2$ = "YOU◊ARE◊IN
  ◊THE◊" + R1$ + "."
110 PRINT WE$;N2: PRINT
  CHR$(34);R2$; CHR$(34):
  PRINT D$ "WRITE◊EAMON.
  ROOMS,R" ;N2: PRINT CHR$
  (34);R1$; CHR$ (34): FOR
  I = 1 TO ND: PRINT
  DR%(I): NEXT I: PRINT LT
115 RETURN
120 REM MK.ARTIFACT
125 GOSUB 72: GOSUB 71:
  RETURN
127 AN$ = "STICK" + Q$:AD$
  = "YOU◊SEE◊AN◊UGLY◊" +
  AN$ + "." :VL = 5:TY =
  2:WT = 3: FOR I = 0 TO
  3:PA(I) = 3: NEXT I
135 PRINT WE$;N2 + NX:
  PRINT CHR$ (34);AD$;
  CHR$ (34): PRINT D$
  "WRITE◊EAMON.ARTIFACTS
  ,R" ;N2: PRINT CHR$(34)
  ;AN$; CHR$ (34): PRINT
  VL: PRINT TY: PRINT WT:
  PRINT RO
140 FOR I = 0 TO 3: PRINT
  PA(I): NEXT I
145 RETURN
150 REM MK.EFFECT
155 GOSUB 72: RETURN
157 EF$ = "EFFECT◊#" + Q$
  + "◊TEXT◊GOES◊HERE."
160 PRINT WE$;N2 + 2 * NX:
  PRINT CHR$ (34);EF$;
  CHR$ (34): RETURN
165 REM MK.MONST
170 GOSUB 72: GOSUB 73:
  RETURN
173 MN$ = "BUG" + Q$:MD$ =
  "YOU◊SEE◊A◊GROADY◊" +
  MN$ + "!" : FOR I = 0 TO
  10:M%(I) = 1: NEXT I
175 PRINT WE$;N2 + 3 * NX:
  PRINT CHR$ (34);MD$;
  CHR$ (34): PRINT D$
  "WRITE◊EAMON.MONSTERS,R"
  ;N2: PRINT CHR$ (34)
  (34);MN$; CHR$ (34): FOR
  I = 0 TO 10: PRINT
  M%(I): NEXT I: RETURN
180 REM ** INIT.FILES
185 PRINT CC$: POKE 216,0:
  HOME : IF DU$ = "" OR
  DU$ = "X" THEN 190
186 PRINT "MISSING◊EAMON
  .NAME◊PARMS"
187 PRINT : PRINT DU$
189 PRINT "USE◊6.X◊EDITOR◊
  FOR◊THIS◊ADV.◊" ;: GET
  Q$: PRINT : GOTO 980
190 VTAB 23: PRINT "MAKE
  ◊NEW◊EAMON◊7.X◊FILES◊&"
  ;: GOSUB 64: IF Q$ < >
  "Y" THEN 980
195 HOME : INPUT "ADV.NAME
  :◊" ;Q$: IF Q$ = "" OR
  ASC (Q$) = 27 THEN 980
200 IF LEN (Q$) > 30 OR
  LEN (Q$) < 3 THEN PRINT
  : PRINT "LENGTH◊ERROR
  ◊>>◊" ;: GET Q$: PRINT :
  GOTO 195
202 DU$ = Q$: INPUT "MOVE
  MENT◊DIRECTIONS◊(6◊OR◊
  10):◊" ;ND$: IF ND$ = ""
```

```
I2$:I$ = "" : PRINT A$;::
  GOTO 283
308 IF J = 27 THEN PRINT
  I2$:I$ = I$ + I2$:
  RETURN
310 GOTO 283
330 VTAB VV: HTAB HH:
  GOSUB 280: IF I$ = "/"
  THEN POP : GOTO 770
350 RETURN
699 REM *** M A I N L I N
  E ***
700 DU$ = "X" : TEXT :
  HOME : PRINT "NUEDIT" :
  PRINT : PRINT "INSERT◊
  DISKETTE◊TO◊BE◊EDITED.◊
  <KEY>◊" ;: GET Q$: PRINT
  : IF ASC (Q$) = 27 THEN
  HOME : GOTO 980
710 ONERR GOTO 185
720 Q$ = "6" : GOSUB 75:
  PRINT D$ "READ◊EAMON
  .NAME" : INPUT DU$:
  INPUT ND$: INPUT DV$:
  PRINT CC$: POKE 216,0:ND
  = VAL (ND$):I = VAL (
  LEFT$ (DV$,1)): IF I < 7
  THEN HOME : GOTO 187
730 GOSUB 81
747 ZL = 238:ML = LM -
  62:AL = LA - 42:RL = LR
  - 34
748 M$ = "N◊S◊E◊W◊U◊D◊" :
  IF ND = 6 THEN 770
749 M$ = "NSEWUD◊TVXY" :
  F$(NF - 1) = F$(NF):NF
  = NF - 1
750 GOTO 770
760 PRINT : PRINT "MAX◊
  NUMBER◊OF" F$(QC) "S◊IS
  ◊" ;NX; ".◊" ;: GET Q$:
  PRINT
770 PRINT CC$:X = FRE (0):
  HOME : GOSUB 8000: PRINT
  Q$ "◊◊VREF:◊" ; PEEK
  (175) + 256 * PEEK (176)
780 PRINT : PRINT DU$:
  PRINT : PRINT "DIRECT
  IONS:◊" ND$: PRINT "VERS
  ION◊IS◊" DV$: PRINT
790 V = 1:N2 = 1:PX = 0:
  GOSUB 63: PRINT
800 FOR I = 1 TO NF: PRINT
  "[" LEFT$ (F$(I),1)
  "]◊◊" F$(I): NEXT I
810 PRINT : PRINT "[◊]◊◊
  SELECT" ;: HTAB 2: GET
  Q$: PRINT Q$
820 FOR I = 1 TO NF: IF Q$
  < > LEFT$ (F$(I),1) THEN
  NEXT I: GOTO 770
830 QC = I
840 HOME : GOSUB 63: VTAB
  7: PRINT F$(QC): IF QC =
  NF THEN 980
845 IF Q$ = "N" THEN 965
850 Q$ = "ROOM" : IF QC <
  = MF THEN Q$ = F$(QC):
  PRINT : PRINT "ENTER◊+
  ◊TO◊ADD◊NEW◊" Q$ "◊(S)◊OR"
860 PRINT : PRINT "◊ENTER
  ◊" Q$;: INPUT "◊NUMBER◊
  ◊>>◊" ;Q$: IF Q$ = ""
  THEN 770
870 IF QC > MF THEN N%(QC)
  = N%(1): GOTO 960
875 IF Q$ < > "+" THEN 960
880 IF (N%(QC) > = NX)
  THEN 760
890 PRINT : PRINT "CREATE
  ◊HOW◊MANY◊" F$(QC);:
  INPUT "S?◊◊>>◊" ;Q$: IF
  Q$ = "" THEN 770
900 PX = VAL (Q$): IF PX <
  2 THEN PX = 1
910 GOSUB 92: GOTO 770
960 Q = INT ( ABS ( VAL
  (Q$))): IF Q < 1 OR Q >
  N%(QC) THEN 770
965 ON QC GOSUB 99,125,
  155,170,115,99
970 N2 = Q: ON QC GOTO
  1010,2010,3010,4010,
  220,1510
980 PRINT CC$: PRINT CHR$
  (4) "MAXFILES◊3" : PRINT

: END
1000 REM *** ROOMS ***
1010 GOSUB 77
1020 HOME : PRINT "ROOM◊"
  ;N2;: HTAB 15: PRINT
  "LIGHTING:◊" ;LT;: IF V
  THEN PRINT : GOTO 1025
1022 HTAB 25: INPUT ""
  ;Q$: IF Q$ = "" THEN
  VTAB 1: HTAB 25: PRINT
  LT: GOTO 1025
1023 LT = VAL (Q$)
1025 VTAB 3: IF V THEN
  PRINT "◊" R1$: GOTO 1070
1030 VV = 3:HH = 2:TL =
  RL:I2$ = R1$: GOSUB 330
1040 IF I$ = "" THEN 1070
1060 R1$ = I$
1070 VTAB 5: IF V THEN
  PRINT R2$: GOTO 1110
1080 VV = 5:HH = 1:TL =
  ZL:I2$ = R2$: GOSUB 330
1090 IF I$ = "" THEN 1110
1100 R2$ = I$
1110 VV = 14: VTAB VV - 2:
  PRINT "EXITS◊(0=NONE◊
  NEG=STRANGE◊+500=DOOR)--
  " : FOR I = 1 TO ND
1120 VTAB VV + INT ((I -
  1) / 2): HTAB (1 + 19 *
  (I / 2 = INT (I / 2))):
  PRINT D$(I); "◊--->◊RM◊"
  ;DR%(I);: IF V THEN
  PRINT : GOTO 1150
1130 HTAB (15 + 19 * (I /
  2 = INT (I / 2))): INPUT
  "" ;Q$: IF Q$ = "" THEN
  VTAB VV + INT ((I - 1) /
  2): HTAB (15 + 19 * (I /
  2 = INT (I / 2))): PRINT
  DR%(I): GOTO 1150
1140 DR%(I) = VAL (Q$)
1150 NEXT I
1160 Q$ = "" : IF NOT V
  THEN QC = 1: GOSUB 58:
  IF Q$ = "R" THEN 1020
1170 IF Q$ = "X" THEN 1010
1200 VTAB 23: PRINT M$;:NT
  = N%(1): GOSUB 9
1210 Q = (QC = 1) + 2 *
  (QC < > 1): IF I THEN ON
  Q GOTO 1010,1510
1220 IF NOT V THEN ON Q
  GOTO 1020,1010
1230 FOR I = 1 TO ND: IF
  Q$ < > LEFT$ (D(I),1)
  THEN NEXT I: GOTO 1200
1240 IF ABS (DR%(I)) < 501
  OR ABS (DR%(I)) > 700
  THEN 1245
1242 ZZ = N2:N2 = ABS
  (DR%(I)) - 500: IF N2 >
  N%(2) THEN 1244
1243 GOSUB 51: IF PA(0) <
  > 0 AND ABS (PA(0)) < =
  N%(1) THEN N2 = ABS
  (PA(0)): GOTO 1247
1244 N2 = ZZ: GOTO 1200
1245 IF DR%(I) < > 0 AND
  ABS (DR%(I)) < = N%(1)
  THEN N2 = ABS (DR%(I)):
  GOTO 1247
1246 GOTO 1200
1247 ON Q GOTO 1010,1510
1250 GOTO 1200
1500 REM *** DISP RM
  CONNECTS ***
1510 ZZ = N2: GOSUB 78:
  FOR I = 1 TO 6:R%(I) =
  DR%(I): NEXT I
1520 HOME : PRINT "ROOM◊"
  ;N2;: HTAB 11: FOR I = 1
  TO 6: PRINT LEFT$
  (D$(I),1); SPC( 4);:
  NEXT I: PRINT
1530 FOR I = 1 TO 39:
  PRINT "_" ;: NEXT I:
  PRINT
1540 FOR J = 1 TO 6:N2 =
  R%(J):K = J * 2 + 3:
  VTAB K: PRINT LEFT$
  (D$(J),1) "◊#" ; SPC( 2
  - ( ABS (N2) > 9) - (N2
  < 0));N2;
1550 IF N2 = 0 THEN HTAB
  11: PRINT "...◊NONE◊..."

: GOTO 1590
1555 IF N2 > 500 AND N2 <
  600 THEN HTAB 11: PRINT
  "...◊A◊DOOR◊..." : GOTO
  1590
1560 IF N2 > N%(1) THEN
  HTAB 11: PRINT "...◊UND
  EFINED◊..." : GOTO 1590
1570 IF N2 < 0 THEN HTAB
  11: PRINT "...◊SPECIAL
  ◊..." : GOTO 1590
1580 PRINT : GOSUB 74:
  GOSUB 78: VTAB K: GOSUB
  66: GOTO 1590
1590 NEXT J
1600 N2 = ZZ: FOR I = 1 TO
  6:DR%(I) = R%(I): NEXT
  I: GOTO 1200
2000 REM *** ARTIFACTS ***
  (RD & WR 8 PARMS FOR ALL
  FMTS)
2010 GOSUB 50
2040 HOME : PRINT "ART◊#"
  ;N2; "◊◊◊◊" ;: HTAB 9:
  IF V THEN PRINT AN$:
  GOTO 2090
2050 VV = 1:HH = 9:TL =
  AL:I2$ = AN$: GOSUB 330
2060 IF I$ = "" THEN 2090
2080 AN$ = I$
2090 VTAB 3: IF V THEN
  PRINT AD$: GOTO 2140
2100 VV = 3:HH = 1:TL =
  ZL:I2$ = AD$: GOSUB 330
2120 IF I$ = "" THEN 2140
2130 AD$ = I$
2140 VV = 7: VTAB VV + 3:
  PRINT "VALUE◊IN◊GOLD◊
  PIECES:◊" ;: HTAB 30:
  PRINT VL;: IF V THEN
  PRINT : GOTO 2170
2150 HTAB 30: INPUT ""
  ;Q$: IF Q$ = "" THEN
  VTAB VV + 3: HTAB 30:
  PRINT VL: GOTO 2170
2160 VL = VAL (Q$)
2170 VTAB VV + 4: HTAB 1:
  PRINT "TYPE:◊" TY$(TY)
  "◊◊◊◊" ;: HTAB 30: PRINT
  TY;: IF V THEN PRINT :
  GOTO 2220
2180 PRINT "◊<-◊->◊" ;:
  GET Q$:I = ASC (Q$): IF
  I = 13 THEN PRINT : GOTO
  2220
2190 IF I = 8 THEN TY = TY
  - (TY > 0) + TZ * (TY =
  0)
2200 IF I = 21 THEN TY =
  TY + (TY < TZ) - TZ *
  (TY = TZ)
2210 PRINT : GOTO 2170
2220 VTAB VV + 5: PRINT
  "WEIGHT◊IN◊GRONDS:◊" ;:
  HTAB 30: PRINT WT;: IF V
  THEN PRINT : GOTO 2250
2230 HTAB 30: INPUT ""
  ;Q$: IF Q$ = "" THEN
  VTAB VV + 5: HTAB 30:
  PRINT WT: GOTO 2250
2240 WT = VAL (Q$)
2250 IF V THEN 2255
2253 VTAB VV + 7: PRINT
  "IN◊ROOM◊X:◊X◊◊◊◊◊EMBED
  ◊IN◊RM◊X:◊X+200" : PRINT
  "CARRIED:00-10000◊ON◊MON
  STER◊X:◊-X-1" : PRINT
  "WORN:◊◊◊◊◊-999◊◊IN◊ARTI
  FACT◊X:◊X+500"
2255 VTAB VV + 12 - V * 6:
  GOSUB 260: IF V THEN
  PRINT : GOTO 2290
2260 HTAB 30: INPUT ""
  ;Q$: IF Q$ = "" THEN
  2275
2270 RO = VAL (Q$)
2275 VTAB VV + 6: GOSUB
  260: PRINT
2290 ZZ = TF(TY): FOR I = 0
  TO 3
2292 VTAB VV + 7 + I: HTAB
  1: PRINT AF$(ZZ,I) ":◊"
  ;: IF (I < > 1) OR (ZZ
  > 1 AND ZZ < > 9) THEN
  2298

2294 PRINT WT$((ZZ =
  1),PA(I))
2298 HTAB 30: PRINT
  PA(I);: IF V THEN PRINT
  : GOTO 2320
2300 IF (I < > 1) OR (ZZ <
  > 1 AND ZZ < > 9) THEN
  2308
2301 PRINT "◊<-◊->◊" ;:
  GET Q$:J = ASC (Q$): IF
  J = 13 THEN PRINT : GOTO
  2320
2302 IF J = 8 THEN PA(I) =
  PA(I) - (PA(I) > 0) + PZ
  * (PA(I) = 0)
2303 IF J = 21 THEN PA(I)
  = PA(I) + (PA(I) < PZ) -
  PZ * (PA(I) = PZ)
2305 PRINT : GOTO 2292
2308 HTAB 30: INPUT ""
  ;Q$: IF Q$ = "" THEN
  VTAB VV + 7 + I: HTAB
  30: PRINT PA(I): GOTO
  2320
2310 PA(I) = VAL (Q$)
2320 NEXT I
2430 Q$ = "" : IF NOT V
  THEN GOSUB 58: IF Q$ =
  "R" THEN 2040
2440 IF Q$ = "X" THEN 2010
2470 VTAB 23:NT = N%(2):
  GOSUB 9
2480 IF I THEN 2010
2490 IF NOT V THEN 2040
2500 GOTO 2470
3000 REM *** EFFECTS ***
3010 PRINT RE$;N2 + 2 *
  NX: INPUT EF$: PRINT D$
3020 HOME : PRINT "EFFECT
  ◊#";N2:VTAB 3: IF V THEN
  PRINT EF$: GOTO 3090
3030 VTAB 3: HTAB 1:VV =
  3:HH = 1:TL = ZL:I2$ =
  EF$: GOSUB 330
3040 IF I$ = "" THEN 3060
3050 EF$ = I$
3060 GOSUB 58: IF Q$ = "R"
  THEN 3020
3070 IF Q$ = "X" THEN 3010
3090 VTAB 23:NT = N%(3):
  GOSUB 9
3100 IF NOT V THEN 3020
3110 IF I THEN 3010
3120 GOTO 3090
4000 REM *** MONSTERS ***
4010 PRINT RE$;N2 + 3 *
  NX: INPUT MD$: PRINT D$
  "READ◊EAMON.MONSTERS,R"
  ;N2: INPUT MN$: FOR I =
  0 TO 10: INPUT M%(I):
  NEXT I: PRINT D$
4040 HOME : PRINT "MON◊#"
  ;N2; "◊◊◊◊" ;: HTAB 9:
  IF V THEN PRINT MN$:
  GOTO 4090
4050 VV = 1:HH = 9:TL =
  ML:I2$ = MN$: GOSUB 330
4060 IF I$ = "" THEN 4090
4080 MN$ = I$
4090 VTAB 3: IF V THEN
  PRINT MD$: GOTO 4140
4100 VV = 3:HH = 1:TL =
  ZL:I2$ = MD$: GOSUB 330
4120 IF I$ = "" THEN 4140
4130 MD$ = I$
4140 VTAB 10: FOR I = 0 TO
  10
4150 PRINT M$(I) ":◊" ;:
  HTAB 20: PRINT M%(I);:
  IF V THEN PRINT : GOTO
  4180
4160 HTAB 20: INPUT ""
  ;Q$: IF Q$ = "" THEN
  VTAB 10 + I: HTAB 20:
  PRINT M%(I): GOTO 4180
4170 M%(I) = VAL (Q$)
4180 NEXT I
4190 Q$ = "" : IF NOT V
  THEN GOSUB 58: IF Q$ =
  "R" THEN 4040
4200 IF Q$ = "X" THEN 4010
4230 VTAB 23:NT = N%(4):
  GOSUB 9
4240 IF I THEN 4010
4250 IF NOT V THEN 4040
4260 GOTO 4230
```

```
8000 Q$ = "" :J = PEEK
     (103) + 256 * PEEK (104)
     + 4: FOR I = 1 TO 11:Q$
     = Q$ + CHR$ (128 + PEEK
     (J + I)): NEXT I: RETURN
8999 REM *F$(I)
9000 DATA ROOM,ARTIFACT,
     EFFECT,MONSTER,NAME◊
     CHANGE,CONNECTIONS,X-IT
9010 REM *D$(I)
9020 DATA NORTH,SOUTH,EAST
     ◊,WEST◊,UP◊◊◊,DOWN◊,T-
     NE◊,V-NW◊,X-SE◊,Y-
     SW◊,NONE
9030 REM *TY$(TZ) TF(TZ)
     <TYPE NAMES & FMT #'S>
9040 DATA GOLD/MONEY,0,STD
     .◊TREASURE,0,STD .◊WEAPON
     ,1,ODD◊WEAPON,1,CONTAIN
     ER,2,LIGHTABLE,3,DRINK
     ABLE,4,READABLE,5,DOOR/
     GATE,6,KEY/OPENER,7,BOUN
     D◊MNST,8,WEARABLE,9,DOOR
     -12,10,CUSTOM-13,0,CUST
     OM-14,0,CUSTOM-15,0
9043 REM *LO$(I) *
9045 DATA IN◊ROOM,INSIDE◊
     CONTAINER,EMBEDDED◊IN◊
     ROOM,ON◊MONSTER,CARRIED
     ,WORN,???
9050 REM *AF$(FM,J) <ARTIF
     PARMS #5-#8>
9060 DATA #5,#6,#7,#8,WEA
     PON◊COMPLEXITY,WEAPON
     ◊TYPE,HIT◊DICE,HIT◊SIDES
9070 DATA KEY◊#,STRENGTH,
     OPEN?,#8,DURATION,#6
     ,#7,#8
9080 DATA HEAL◊AMT,DOSES,
     OPEN?,#8,1ST◊EFFECT,NUM.
     ◊OF◊EFFECTS,OPEN?,#8
9090 DATA ROOM◊BEYOND,KEY
     ◊#,STRENGTH,HIDDEN?,#5
     ,#6,#7,#8
9100 DATA MONSTER◊#,KEY◊#
     ,GUARD◊#,#8,ARMOR◊CLASS,
     TYPE,#7,#8,ROOM◊BEYOND,
     KEY◊#,OPEN?,HIDDEN?
9110 REM *WT$(PZ) <ARTIF.
     PARM #6 WEAP/ARMOR
     TYPES>
9120 DATA ARMOR◊,CAPE◊◊,
     BOOTS◊,GLOVES,HELM◊◊,
     CTYP#5,CTYP#6,NONE◊◊,AXE
     ◊◊◊,BOW◊◊◊,CLUB◊◊,SPEAR◊
     ,SWORD◊,CUSTOM
9130 REM *M$(I) <MONSTER
     PARMS>
9140 DATA HD,AG,GROUP◊SIZE
     ,COURAGE,ROOM,WEIGHT/
     PRM5,ARMOUR,WEAPON#,HIT
     ◊DICE,HIT◊SIDES,FRIEND
     LINESS
```

Checksums

0-$92CC	24-$CC06
1-$DB99	27-$0652
2-$EB48	30-$1845
3-$7A80	33-$C60A
4-$C71B	36-$5C8A
5-$BE89	37-$38E7
6-$0217	39-$D453
7-$71FC	49-$C881
9-$6DEC	50-$8682
12-$726A	51-$8941
15-$D129	57-$5A98
18-$CE28	58-$D3D1
21-$DE1A	59-$1DC0

60-$5BCC
61-$BC83
62-$25B9
63-$2B49
64-$B145
65-$D6CD
66-$4DC7
70-$1981
71-$2CB6
72-$D75A
73-$FA8B
74-$BBB4
75-$340D

Vendors

Eamon Adventurer's Guild
7625 Hawkhaven Drive
Clemmons, NC 27012
   atten: Tom Zuchowski (910-766-7490)

Product Monitor
7814 Santa Elena
Houston TX 77061
   atten: Jeff Hurlburt (713-645-8680)

Jack R. Nissel   PA

Softkey for...

U.S. Atlas Action
Boppie's Great Word Chase
Verb Viper
Word Man
DLM

Softkey for...

Space Math
Learning Well

Softkey for...

Reading for Meaning with
Mother Goose
Metric Skills I
Metric Skills II
Compound Words and
Contractions
Nouns/Pronouns 1
Antonyms/Synonyms
Patterns and Sequence
Size and Logic
Observation and Classification
Conservation and Counting
Parquerty and Pictures
Roots/Affixes
Verbs
Chariots, Cougars, & Kings
Money! Money!
Hartley Courseware

Softkey for...

Peanut's Maze Marathon
Fixit
Galaxy Math Basic Facts
Random House

Softkey for...

Dragon's Keep
Sierra On-Line

Softkey for...

Piece of Cake Math
Fraction Factory
Springboard Software

Softkey for...

Sweet Shoppe
Grabit Factory
Eric Software

Softkey for...

Rhymes & Riddles
Spinnaker Software

Softkey for...

Learn About Sounds
American Educational Computer

Softkey for...

Computer Literacy Adventures
of the Lollipop Dragon
Cursor Control Adventures
Plotting and Programming Adventures
Letter and Key Number Adventures
Function Key Adventures
The Society for Visual Education

Requirements:
The original disk(s)
Blank disk(s) for each title
COPYA from your DOS 3.3 system master
A sector editor

(This last title was on the most wanted list, as of issue #62, as

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separate titles. They are Lollipop Dragon: Cursor Control Adventures, Lollipop Dragon: Plotting and Programming Adventures, Lollipop Dragon: Letter and Key Number Adventures, and Lollipop Dragon: Function Key Adventures.)

Notes: On Peanuts Maze Marathon make the sector edit to both sides. On Rhymes & Riddles you do not need to do any sector edits. I found that when you write to the Hartley Courseware and American Educational titles it locks up certain sectors on your unprotected copy. To avoid this I put Diversi-DOS on my copies.

Step-by-step

1. Boot your DOS 3.3 system master and at the Applesoft prompt enter:
POKE 47426,24   *ignore checksum & epilogu errors*
RUN COPYA

2. Copy your original disk to your blank disk.

3. Make the following sector edit to your copy.

Trk	Sct	Byte	From	To
$00	$03	$42	38	18

4. Write the sector back to the disk.

Softkey for...

States and Traits
Crypto Cube
DesignWare

Requirements:
The original disk(s)
A blank disk for each title
Any fast copy program
A sector editor

Jim S. Hart's Softkey, in issue #52, for European Nations and Locations works for these titles as well.

1. Fast copy your original disk.
2. Search for the byte string A9 38 8D 9E B9 and change to EA EA EA EA EA.
3. Write the sector back to the disk.

Softkey for...

Maps & Globes: Understanding Maps & Globes
Troll Associates

Requirements:
The original Maps & Globes: Understanding Maps & Globes disks
2 blank disks
DOS 3.3 system master

Paul D. Dillion's softkey, in issue 60, for Maps & Globes Latitude & Longitude works for this title.

1. Boot your DOS 3.3 system master and at the Applesoft prompt enter:
CALL-151   *gets you into the monitor*
B954:29 00   *ignore first byte of address header*
B988:18 60   *ignore both bytes of address epilogue*
3D0G   *gets you back to Applesoft BASIC prompt*
RUN COPYA

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2. Copy both disks to your blanks
   That's it.

Softkey for...

Math Tutor Fractions Part I
Math Tutor Multiplication
Math Tutor Division
Scholastic

Requirements:
The original disks
3 blank disks for each title
COPYA from your DOS 3.3 system master
Copy II Plus

1. Boot your DOS 3.3 system master and at the Applesoft prompt enter:
POKE 47426,24   *ignore checksum and epilogues*
RUN COPYA

2. Copy your original program disks to your blank disks. You can use any fast copy program to copy the management disk.

3. Boot Copy II Plus and use the CHANGE BOOT PROGRAM function to change the boot program to HELLO on your copy of the program disks.

Softkey for...

Math Tutor Fractions Part II
Scholastic

Requirements:
The original disks
3 blank disks
COPYA from your DOS 3.3 system master

This title was slightly different then Math Tutor Fractions Part I. On even tracks the address prologues were D4 AA 96 and the address epilogues were AB AF. On odd tracks everything was normal. To deprotect this disk we will patch COPYA to allow both D4 and D5 in the address prologues and to ignore the address epilogues.

1. Boot your DOS 3.3 system master and at the Applesoft prompt enter:
CALL-151   *gets you into the monitor*
B954:4A C9 6A D0 EF   *allows D4 and D5 in address prologues*
B988:18 60   *ignores address epilogues*
3D0G   *gets you back to the Applesoft prompt*
RUN COPYA

2. Copy your original program disks to your blank disks. You can use any fast copy program to copy your management disk.

   That's it.

Softkey for...

Microzine Jr.
Scholastic

Requirements:
The original disks
4 blank disks
COPYA from your DOS 3.3 system master
Copy II Plus

Disk 1 was like Math Tutor Fractions Part II. On even tracks the address prologues were D4 AA 96 and the address epilogues were AB AF. On odd tracks everything was normal. We will make the same patches