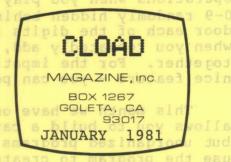
operations when you play Hidden Number. The game starts with the numbers 0-9 recommy hidden hid 10 doors. The ... emap list entropy two em exar"

is behind. Your clues are the answers you get Hup one, hup two, hike! Hey, isn't it time due for baseball practice to start? I just can't wait for the hockey season, oops, I mean the hockey playoffs, to begin. Get out your skis, there are two inches of man-made snow on a base of rocks and mud on the western slopes. Well, policies the basketball season is about over. Well, the over basketball season is about to begin. Isn't it a season wonderful to have your video dedicated to some - do no movin are another tank thing worthwhile, like Adventure....



************************ Side 1 10) aug Title nemetata emos tant 3vogg Turns Count 1 1001 this program, only the figures that you looked at in geometry (plane, tangle 08 cft 2nder, 14 cft 2nd are reviewed, and you really only succeed in ting how much of that stuff you've forgotten. Mirror Cover 19 & 264 *SubSpeed) reduced from those quarter (beegger? **sig [Hidden Numbernuo] anongia ([worl20.&:339.8 70.& 199]61* sio**** solvebFilemasters (Disklonly) ag alds o178 & 380 shol05 & 224 uo* Subs involves a ship that you control and a multitude of submarines at Fing depths below the ship. The ship is equipped with depth charges and * the Phib & Tarry 4252 & ill mines. The object is tyrtemosDas many * teace *tiee00ssyd8 can466 &064fconds. When that fails, decducy as ma** subs dedi**us and Heart Talk .gids and prinim me2213& 414 dul291& 243 uc* destroyed, the greater the point value, and the greater your power is at the next disarmament conference 12 years from now.

Take as look at your cover in our cover. That swhat Mirror Coverug sken gives you. Those of you who are more adventurous will list the program to see how it works. "Hey, there is something funny about the way the town remark statement is displayed by itself for a few seconds before the restiw of the program is listed", you cry. That nifty little trick is done by putting a whole bunch of clear-to-end-of-frame characters (CHR\$(31)) after the remark statement. Of course, something neat like that is neat ONCE, and becomes sort of a pain afterwards.

Please find enclosed a sample program executed in a new I had never seen a program list like Mirror Cover listed, so I wrote a one line RAM dump routine to see what the program looked like after it was loaded. Line 10000 in the program is the dump routine. I'd like to say that I left it in the program on purpose for you to run for fun (RUN 10000 will do it), but I can't. Well, I could, but I'd be lying. But I don't want you to think that I make mistakes, so maybe I will just 'stretch the truth' a little ... used politice fullewood viewertx3

Speed is a common card game with one twist - you play against the computer. The game requires quick recognition of the current face-up cards, and quick reflexes to get the right card on one of the 'piles' first. Since your TRS-80 operates in nanoseconds, Speed can be extremely challenging or frustrating, depending on your mental state. points

Excercise your deductive abilities while practicing simple math way

operations when you play Hidden Number. The game starts with the numbers 0-9 randomly hidden behind 10 'doors'. The object is to figure out which door each of the digits is behind. Your clues are the answers you get when you repeatedly add, subtract, or multiply any of the 'doors' together. For the impatient, curious, or editors among you, there is a nice feature - you can peek at the solution at any time.

This month we have one for you disk users out there. Filemaster allows you to build a catalogue containing info on all of the precious but unorganized programs you have on disks. Also, if you would like to use the program to create a running record of something else, brief instructions are given in the program on how you can alter the program to wait your wants.

While Hidden Number makes you use your basic arithmetic operations, Geometry gives you a quickie review course on the first class that you ever took that made you PROVE that some statement was true (or false). In this program, only the figures that you looked at in geometry (plane, triangle, cylinder, etc.) are reviewed, and you really only succeed in proving how much of that stuff you've forgotten.

Subs is another idea borrowed from those quarter (Quarter? Gad, some are half a Susan B. Anthony now!) siphons found at the local pizza pub. If you haven't contributed to this particular uncharitable device before, Subs involves a ship that you control and a multitude of submarines at varying depths below the ship. The ship is equipped with depth charges and the subs carry floating mines. The object is to write as many peace treaties as you can in 10 seconds. When that fails, destroy as many subs as you can without one of them mining the ship. The deeper the sub that is destroyed, the greater the point value, and the greater your barganing power is at the next disarmament conference 12 years from now.

Now we come to my favorite program this month. It may seem a little premature, since Valentine's Day is Febuary 14th, but the way that we make publishing deadlines (never!), Heart Talk comes to you in late January. What the program does is rather simple but... Wait! I don't want to spoil it for you. I'll just reprint the cover letter that came with this program:

after the remark statement. Of course, something neat like theriSarsed

Please find enclosed a sample program executed in a new interpretive language that I am developing.

Line 20 of the program highlights two outstanding features of the best saw this language.

The spelling of key words does not need to be absolutely correct as evidenced by the misspelling of the word "vertical".

ONCE, and becomes sort of a pain afterwards.

2. Extremely powerful editing features. Notice how in line 20 I had forgotten to include a key statement at the beginning of the line, but was able to simply add it as an afterthought at 90 the end.

y Please run the program first and see what it does. It's just a simple program that draws a heart and then stops.

easily as you have in mind what the program just did. It will seem

and/or PEEKs/POKEs to dark corners of the ROM. These ditties probably dal have not included the full interpreter in this sample as it in Illy requires many gigobytes of core storage. If anyone is into 19019 dollar

drawing hearts, this may be all they need to lean end of the leavest odw

Also I wanted to keep the memory requirements to a minimum for unna this sample in case you would like to include it in one of your CLOAD issues for evaluation purposes. A SAL LEUR 100 JASHELOMOS OT yellow sheets, CLOAD Magazine has decided

I'm interested if any of your readers might think there is a leave market out there for this.

Thank you for reviewing my tape.

From the desk of Michael Cylereonics this little tidbit. If you have inadvertently typed 'NEW' on a BASIC program that you wanted to save, you can recover the program if mandridellowing immediately:

All I recieved was that letter and the tape. Now you have the same. Enjoy! 'LIST' the program to be sure it's there (DO NOT 'RUN'!)

Excuses, excuses...

Why is this month's issue out late? Because we did an overhaul on the duplicating system. Boy, did we ever! We normally have 20 decks that record both sides at double speed doing our duplication. As a deck gets unreliable from overuse or whatever, we stop using it. We were down to just 10 decks before Christmas, so we bought some new parts (including special digital heads) and proceded to do battle. We lost. None, I repeat, none of the decks would load AFTER we finished overhauling them. Stan (the man behind the soldering gun) was not pleased.

The 2-or-3 day job became a two-week, twelve-hour-a-day headache. We learned more than we ever wanted to know about digital recording for the TRS-80. We discovered that tweaking on the pulse that we send to the tapes makes very little difference. We learned that the adjustment of a tape head's position is not all that critical. We improved our swearing. Stan even remade the pulse generating circuitry - 3 times!

Now the decks are working. The special digital heads are back in their package and some new audio heads are doing the duplication chores. The tapes are loading better than ever, although a few of you will completely disagree when your January tape fails to cooperate. If you get a bad tape, send it back for a prompt replacement, and be gentle with

two bug fixes that can be made to make the program 'nice.nam rawanA art

A few of you are planning to acquire the new Model III that R/S has out. Or you may know of someone who is thinking of buying one (production of the Model I was terminated as of January 1st). And the question formost in your mind is, "Will CLOAD run on my new Model III?" The answer - I don't know! All of the strictly BASIC programs should run, although some characters that always appeared as upper case in the Model I may be lower case in the Model III. But CLOAD has always been fond of publishing little programs that do tricky little things. And

these tricky little things are often done with machine code subroutines and/or PEEKs/POKEs to dark corners of the ROM. These ditties probably will not run on the Model III. We are in the process of finding out just which programs will run, and we should have some information for those who request it in the near future. Very 118 ad very 21dd . 2318ad palwarb

Also I wanted to keep the memory requirements to a mi.itnementa

To complement our usual 1/2 and full page advertisements in these 10 yellow sheets, CLOAD Magazine has decided to start selling 1/8 and 1/4 page advertising spots at outrageous prices for the express purposes of fattening our wallets and giving me less space to fill. Write for rates.

Helpful hints ...

From the desk of Michael Garry comes this little tidbit. If you have inadvertently typed 'NEW' on a BASIC program that you wanted to save, you can recover the program if you do the following immediately:

Type 'POKE 17130,1'

2) Type 'SYSTEM' wow legat and box restal land saw beveloer I IIA
3) Answer the *? with '/11395'

'LIST' the program to be sure it's there (DO NOT 'RUN'!)

Save the program to disk or cassette

R. S. Johnson of Victoria, British Columbia, thought that last month's LTC-21 program was hard enough without having the rudder control keys backwards. In the original program, the 'T' key turned the plane to the right, and the 'Y' key turned the plane to the left. To make the 'T' key a left turn and the 'Y' key a right, he suggests switching lines 191 and 192. Now if I could only remember which hand is my right...

repeat, none of the decks would load APTER we finishe Stan (the man behind the soldering qun) was ... bnsa ni behind the soldering qun)

Vince Arcuri of Hoffman Estates, Illinois, wrote to say that the high score routine in last month's Star Fighter program didn't work. He gave the following correction for the problem: | sews that belevozab eW .08-29T

tape head's position is not all that critical. We improved oS=12.0141q.

When the program was tested with this fix, a lot of other bugs became apparent. Oops! I confess, a gremlin did it. Not good enough? How about this excuse then and point are about of the speakage ried

When Star Fighter was submitted, it was set up for a TRS-80 with a numeric keypad only. I had a lot of fun modifying it so that it would also run on plain old TRS-80's. But I got a bit carried away... and some un-nice things passed inspection. Below are four cosmetic changes and two bug fixes that can be made to make the program 'nicer's make and

In line 2130, replace the 16 characters 'NUMERIC KEYPAD. ' (note the space after the '.') with 'KEYS SHOWN HERE.'. on the work you work you work you work you work you work you work you

In line 2150, change the space after 'INDICATED' to a '.'. mol moltagup

In line 2190, replace '"5' with 'K\$(5)"' (note the double quotation Model I may be lower case in the Model III. But CLOAD has always been (saram

In line 2200, delete the space between 'RECOMMENDED' and '.'.

Change the 'RP<>RDTHEN5' in line 10060 to 'RP<RD THEN 5 ELSE RP=0'.

Replace the 'THEN1' in line 10110 with 'THEN 2 ELSE END'.

Not a moment too soon...

Bob Albrecht, Don Inman, and Ramon Zamora have written a Level II BASIC manual that should have come with the TRS-80 in the first place. It is called, appropriately, 'Level II BASIC - A Self Teaching Guide'. If you are just learning BASIC, or know of someone who is, this is the book. It is quite large (over 350 pages), but by the time you have walked through the numerous examples and humorous drawings and comments, you will be comfortable with the basic Level II BASIC. And if you are feeling slightly embarrassed because you don't know how to hook your new TRS-80 up, there is even a section on setting up the machine to help you out.

The book is not aimed at people who already know BASIC. Many functions and special commands (ie: SIN, POKE, ON ERROR GOTO, etc.) are not even covered. But once this book is devoured, the novice programmer will then be ready to tackle the Radio Shack Level II manual with the necessary degree of understanding. 'Level II BASIC - A Self Teaching Guide' is available at your local Radio Shack.

New toy ...

Up until recently, the only stringy floppy I had seen was the shredded disk that is taped to the shop wall. Now I've seen the Exetron Stringy Floppy mass storage subsystem, and I'm impressed!

The storage medium used by the Stringy Floppy is called a 'wafer'. The wafer is about the size of an open matchbook, and it contains a number of feet (5 through 75 feet) of endless loop magnetic tape. The Stringy Floppy itself is a box about half of the size of a CTR-41 or CTR-80. It contains the wafer drive mechanism, bits of circuitry, and its own 2K ROM. It plugs into a standard 110 volt wall socket and is interfaced to the TRS-80 through the computer's card edge.

The device is nearly invisible to the computer since the 2K of ROM is located in an essentially unused portion of the TRS-80's memory (3000H to 3780H). It also uses 4 (a whole four!) bytes of upper memory, but never fear: if there are protected machine language routines at the top of memory, these 4 bytes will be located automatically below the protected area.

But why is it so neat? It is FAST and RELIABLE! It loads and saves programs at 7200 baud, compared to the cassette rate of 500 baud. Therefore, a 16K program can be saved in approximately 24 seconds, verses 4 minutes for the cassette. And no more frustrating bad loads! Even if there is a bad save or load for some odd reason, an error message is given immediately.

I only noticed two drawbacks, and they are pointed out in the manual. One, you must keep track of how many files are stored on each wafer. Each file is numbered, and in order to save another file on the wafer, you must specify the next available number in sequence. But to load a

file from a wafer, you can either specify that file's number (let the computer do the walking), or you can just load the next file that is found on the wafer. Nitpick two - if you are saving a lot of data to a data file, you may coast past the end-of-tape marker and write over the file I header if your wafer is too short. Then you're out of luck since all of the data on that wafer is now history. Other than these two kinks, this skeptic could find nothing else to complain about.

Before you run out and buy one, be aware that although the Stringy Floppy resembles a disk system in many ways, it is not a substitute for a disk system. It is a giant step from tape, and at less than 1/2 the cost of the TRS-80 Expansion Interface with 1 disk drive, it is a very sound investment. If you are tired of tapes, or you want to speed up your program development time considerably without floating a bond, contact Exetron at 181 Commercial St., Sunnyvale, CA 94086 for more information on the Stringy Floppy.

It is a new year...

Well, I've avoided it long enough - time to make New Year's lood and resolutions. CLOAD Magazine once again resolves to get an issue out on time. And I resolve to find a large egg, open it, and crawl in.

will then be ready to tackle the Radio Shack Level II manual with the

Suide is a tide Regressing a bit, a al 'eblud

Lave:

Leceptly, rotionally stringy floppy I had seen was the

FASTER THAN A SPEEDING TYPIST...

Is it safe to walk the keyboard of your TRS-80 at night? Do you look for Syntax Errors down every dark subroutine? Well, look in your mailbox—It's a bill, it's an ad, it's **CLOAD MAN!** Faster than keying in hardcopy, more fun than an accounts-receivable package, ready to run in a single load . . .

When mild mannered Clyde Cload (star cassette tape duplicator at the MONTHLY CLOAD) dons his cape, the evil Typo-Bugs cringe in terror. This mighty Man of Iron Oxide swoops down on your TRS-80 by First Class Mail every month with super, ready-to-load programs for your (and your computer's) education and enjoyment.

Join in the battle against the Finger-Cramps, Edit Modes, and Typo-Bugs. Let **CLOAD MAN** come to your computer's aid by getting a subscription to **CLOAD MAGAZINE**.

PRICES

1 year subscription	\$42.00
6 month subscription	\$23.00
Single copies	
Anthology-volume 1	\$10.00
Anthology-volume 2	\$15.00

The Fine Print:

Overseas rates slightly higher—please write for them.
Back issues available—ask for our list.*

TRS-80 is a trademark of Tandy Corporation.
California residents add 6% to single copies and anthologies.

Programs are for Level II 16K and occasionally for disks.

*24 Level I back issues also available.

Mastercharge/Visa Welcome Also Cash & Gold.

Copyright CLOAD MAGAZINE 1980 SOME DESCRIPTION

