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"Alien **INVADERS** from deep space are now approaching our planet in great swarms to colonize on Earth. The invaders feel they must destroy all life forms . . ."

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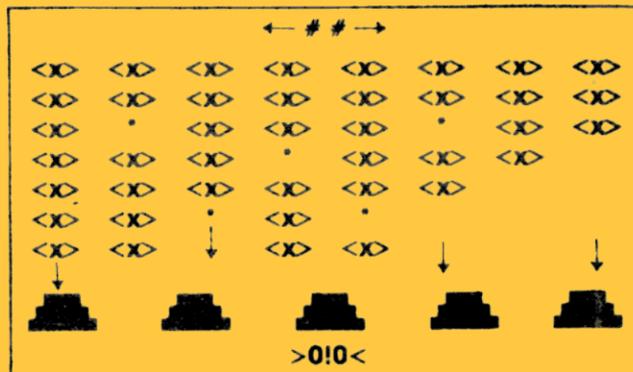
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GAMES

SOFTWARE AVAILABLE from LEVEL IV PRODUCTS, INC.

ANIMATED HANGMAN: L II, 16K by L4 **\$7.50**

He winks, blinks, and makes comments. The gallows are built piece by piece and if you don't guess correctly he hangs.

SPACE BATTLE: L II, 16K by L4 **\$14.95**

Prog 80 and Softside said this is the best TREK based game that they've seen. High-speed graphics (Machine Language sub-routines). You are the commader of a small mercenary star-cruiser. You have hyperdrive or rockets (reaction drive) to maneuver with, missiles or laser cannon to fight with, shields for defense, a computer for information to aid you, and a loyal crew to keep everything running. You have been hired to destroy a fleet of alien invaders. If you survive, you will be rewarded handsomely; if you lose, you're dead.

SPACE BATTLE: (32K, Disk only) by L4 **\$19.95**

Same as above but compatable with DISK BASIC only.

FINAL APPROACH: L II, 16K by L4 **Special \$7.50**

Land a multi-engine jet. Runway and instruments are displayed on the screen. Take the controls and try to land her yourself.

TING-TONG with Sound: L II, 16K by Acorn **\$9.95**

Game for two players – play ping-pong on the screen.

MICRO-OPOLY: L II, 16K by L4 **\$7.50**

Play MONOPOLY against the computer. Similar to the PARKER BROS. game. Full graphics.

CREATURE TIC-TAC TOE with Sound: **\$9.50**

L II, 16K by L4

Played on a conventional tic-tac-toe grid, Creature Tic-Tac-toe has a new twist. Enter the number of the square that you want when prompted by 'move'. The 'creature' will move to that location and 'place' your marker in that square. Instead of X's and O's, your marker grows into a Creature. Watch the computer's 'creature' maneuver past pieces already on the grid. If you want to play again, the 'creature' cleans up the board for the next game.

COMPU-YATZEE: L II, 16K by L4 **\$7.50**

Computer simulation of the game Yatzee. From one to eight players can play at a time. The computer displays the score sheet for each player when it is his turn. Re-roll the dice and score your hand according to the rules of Yatzee.

INVADERS with Sound: L II, 16K by L4 **\$14.95**

Arcade type game with sound. A colony of aliens are invading the earth, destroying everything in their path. Try and destroy the aliens as they move down across your screen before they can reach the earth and destroy you. There are 5 skill levels of play with #1 being the most difficult. You score points according to your ability to ward off the attack. Written in machine language, this game has a very good response time.

COMPUTER OTHELLO: L II, 16K by L4 **\$9.95**

A machine language program in which you play against another person and let the computer display your moves on the screen.

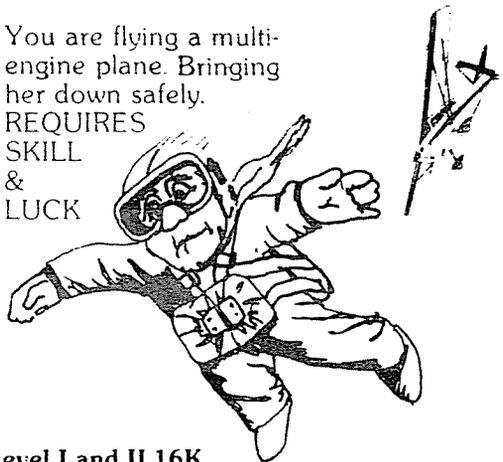
KEYBOARD-80 - Improved: L II, 16K by James Garon **\$9.95**

Play music on your TRS-80 keyboard with this machine language program. Three octave diatonic scale organ now includes sharps and flats. Play your favorites right on the computer. Load program, plug AUX line into any audio amp and bang away!

LIBRARY 100: L II, 16K by TBS **\$49.95**

Everything you ever wanted for the TRS-80; for finance, education, graphics, home, games. Less than 50¢ per program. 100 assorted programs.

You are flying a multi-engine plane. Bringing her down safely.
REQUIRES SKILL & LUCK



Level I and II 16K
FINAL APPROACH \$7.50

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PIGSKIN: L II, 16K by Acorn **\$9.95**

A Football strategy game with five levels of plays. Pigskin is a graphic football game for the TRS-80. It contains most of the elements of the football games that you watch every weekend. You can pit your wits against a friend's, watch the computer play against itself, or you can play against the computer. Average game length is 20-30 minutes. Features are: graphic display of game and statistics, choice of 1 or 2 players, five levels of difficulty in playing against the machine, and demonstration mode for studying the machine's strategy.

LEVEL 80 BASIC: L II, 16K by Interpreter Novelty **\$9.95**

This program is an example of how a computer can go crazy. What must be in a program, won't be. Computer makes comments to you as you program. This is a great program for clubs, parties, and for hours of fun. This program does nothing but make you laugh. Rate P.G.

CYLON RAIDER: L II, 16K by L4 **\$7.50**

A battle between you and a Cylon Battle Ship. You can command your ship to go up, down, to the left or to the right. Because this is designed as a real ship, the video monitor serves as your 'window' to the space around you. The cross on the screen is similar to the cross hair on a scope. When you press the up arrow, you are raising the front of your ship, causing the Cylon to move down. To fire at the Cylon, press the space bar. The Cylon will be destroyed only if it is in the cross marker. After the debris clears, a new Cylon will appear on the screen. You can run out of energy by needlessly firing at the Cylon.

REMEMBER

If a Program Uses READ DATA STATEMENTS
Your Level II Manual States Poke 16553,255.

MUSIC MAESTRO: Disk, by L4 **\$19.95**

Turn your keyboard into an organ! With this program, the letter keys on your keyboard become sound generators with 'Q' being the lowest note and 'M' the highest. Lower notes can be obtained by pressing the down or left arrows. Pressing the 9 and 0 keys produce vibrato. Also included is a machine language subroutine that can be added to any BASIC program for your own sound effects.

LIFE TWO with Sound: **\$14.95**

L II, 16K by Leo Christopherson
Conway's game of Life at an astounding 100 generations per minute! Plus, Leo's 'talking' animated creatures playing the 'Battle of Life'.

POKER PETE: L II, 16K by Quality Software **\$14.95**

Pete appears on your screen (with his bottle and gun) and deals out the cards. Place your bet and try to beat his hand.

OPERA: L II, 16K by 80 US **\$8.95**

Convert your TRS-80 into a sound machine. This program will play five different selections including, William Tell Overture, Sempre Libera, Musetta's Waltz, Queen of the Nile, and La Donna E' Mobile.

NINE GAMES FOR PRE-SCHOOL: **\$9.95**

L II, 16K by TSE

A collection of the programs that exist in the computer memory together, but execute one at a time. The first program is a menu that displays symbols for the other programs. The child may return the computer to the menu from any other program by pressing the CLEAR button, then call another program. To go from the menu to the other programs, simply press the number beside the symbol for the program the child wants. Great for kids. By George Blank.

ADVENTURE: Disk, 32K by Micro Soft **\$29.95**

The complete microcomputer version of the sophisticated fantasy-logic game originally written for the DEC PDP-10. The player explores Colossal Cave, collecting treasures and magic, solving puzzles and avoiding hazards and adversaries. Adventure fills an entire disk with everything you need for your exploration. Even the Grand Master game is included. Adventure is available for the TRS-80 with 32K RAM and single disk drive.

COMPACT GRAPHICS: **\$7.95**

L II, 4K by Interactive Micro

A numerical interpreter subroutine that allows you to draw pictures on your TRS-80 Computer without having to write lengthy programs. An 'etch & sketch' routine enables pictures to be drawn from the keyboard.

FASTGAMMON: Cass **\$19.95** Disk **\$24.95**

L-II, 16K by Quality Software

A computerized version of Backgammon. The board is displayed on the screen. The game is played according to the rules of Backgammon and the computer checks your moves to make sure that they are in accordance with the rules.

WORD CHALLENGE: L II, 16K, by Acorn **\$9.95**

A graphic game with sound effects for the TRS-80 in which one or two players must guess the letters making up the phrase which constitutes the 'challenge'. They may make the phrases and challenge each other or can be challenged by the machine.

ANDROMEDA STRAIN with Sound: L II, 16K **\$9.50**

Based on the movie, this program is with sound and good graphics - try to find the Andromeda Strain by running tests and making logical guesses.

GALACTIC EMPIRE: L II, 16K **\$14.95**

L II, 16K by Adventure International

You are the commander of Galactica's Imperial Forces. Your mission is to conquer and hold the 20 inhabited worlds of the central galactic system. The Computer Central contains the planetary directory as well as keeping

continued

track of all scout ships and status of work orders. Careful planning is essential if you are to accomplish your mission.

ANDROID NIM with Sound: LII, 16K by 80-US **\$14.95**

This game of Chinese Nim has ANIMATED ROBOTS as pawns. The program sets the standard for TRS-80 Graphics. Requires a small audio amplifier, available from Radio Shack, to hear the sound.

SNAKE EGGS with Sound: LII, 16K by 80-US **\$14.95**

Unusual game based on Blackjack and Craps. Start with \$1,000 and try to make it grow (or stop from losing your shirt). Excellent graphics.

Buying a Sound Program?
See Page 18 for Amplifiers.

BEEWARY with Sound: L II, 16K by 80-US **\$14.95**

You have control of the bee. Try to sting the spider before you become its dinner.

OWL TREE with Sound: L II, 16K by 80-US **\$9.95**

In this game you will find a tree with nine playing positions displayed on the screen. Eight of these positions will be filled by owls, the remaining position is filled by a bat. The object of the game is to attract owls to all nine positions by shooting the bats in the fewest number of plays. Each time you shoot a bat, you will also scare off its neighbors which will be replaced by the opposite creature. Remember, don't shoot the owls!

THE GREAT RACE: LII, 16K by 80-US **\$9.95**

A computer simulation of Mille Bornes. Can be played by one to three players. If you are playing alone, the computer will join you. If two or three players are playing, the computer will ask permission to join the game. To advance your car, you must have a mileage card. The race is 600 miles long. Try to avoid the pitfalls of racing—being out of gas, accidents, and flat tires.

LYING CHIMPS: L II, 16K by 80-US **\$9.95**

Play cards with the chimps who may not always be telling the truth. Each player (chimps included) lays down a card on the 'pile' of cards. The number of cards played and the 'rank' of the card is called out. The number of cards must be accurate, but the rank need not be. See if you can find the liar in the crowd.

CONCENTRATION: L II, 16K by 80-US **\$9.95**

A game for 1 to 4 players. This game challenges your memory to the selection of items behind the boxes

numbered 1 to 32. Match a prize hidden behind one box with the identical prize behind another box and win that prize. When all the prizes have been matched, the player with the most matched prizes wins.

SCRAMBLE: L II, 16K by 80-US **\$9.95**

This is a word game for 1 or 2 players. You can supply the words for your opponent, or let the computer provide the words for you to unscramble. The scrambled word appears on the screen. Each word has a point value depending on its complexity. Unscramble the word without any incorrect guesses within the given time period and double your point value. After each player unscrambles 5 words, the player with the most points wins.

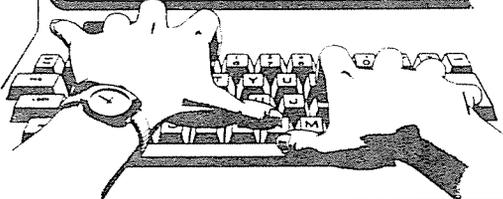
BARRICADE: LI or II, 4K by Sm. Sys. Software **\$14.95**

Another arcade type game. Try to knock down the walls with the "Bouncing" ball. You can set the level of difficulty.

AIRAID: LI or II, 4K by Sm. Sys. Software **\$14.95**

Real time arcade type game. Shoot down the planes and try to beat the previous high score.

<p>TYPING I</p> <p>For the "Hunt & Peck" Typist, to exercise each finger - one at a time. No knowledge of typing required!!</p>	<p>TYPING II</p> <p>For the advanced typist who knows the keyboard, but requires full word practice - Timed & untimed</p>
<p>\$15.00 ea Both Together - \$22.50</p>	



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AMAZING MAZES: LII, 16K by TSE **\$7.95**

Try to find your way out of the MAZE. Don't stop to catch your breath though, because the maze will change. High speed graphics.

- TYCOON:** LII, 16K by TSE **\$7.95**
Run your own company. Become a millionaire or go bankrupt. Up to four can play at one time.
- STAR TREK III.4:** LII, 16K by Lance Micklus **\$14.95**
Most advanced game written. Exploration facet, extensive use of fast graphics. 3-D galaxy. Save incomplete programs.
- TEN PIN:** LII, 16K by TSE **\$7.95**
One or two person game. High speed graphics. True scoring - records spares, strikes, splits and open frames.
- END ZONE:** LII, 16K by TSE **\$7.95**
Two-player football. All the action of a real live football game (Supply your own cheerleaders).
- PORK BARREL:** LII, 16K by TSE **\$9.95**
This game puts you in the shoes of a Congressman. Cast your vote on important issues. Can you please everyone?
- MEAN CHECKERS MACHINE:** **\$19.95**
LII, 16K by Lance Micklus **Disk \$24.95**
Match your skills against the computer at nine levels of play, from novice to advanced expert. Computer response time increases accordingly with playing level.
- TREASURE DUNGEON II:** LII, 16K by TSE **\$7.95**
There's a fortune to gain if you can safely make your way through the ghouls, troll and giant spiders that lurk all around you. Take heed or your bones may join those scattered everywhere.
- DOG STAR:** LII, 16K by Lance Micklus **\$9.95**
Explore a giant space ship while searching for the princess. Try to avoid the guards and attack robots to rescue the princess before she reveals the secret location and strength of her Freedom Fighting Force. Supports 35 different environments.
- TREASURE HUNT:** LII 16K by Lance Micklus **\$7.95**
Find 20 treasures hidden in a maze of caves. Not easy if you don't have a map.
- SPACE WAR:** LII 4K by MMS **\$9.95**
Based on the arcade version. The sun swirls in the center of the screen. Its gravity pulls in and destroys the spaceships around it. Try to destroy your opponent's spaceship without being destroyed by the sun or your opponent.
- STARFLEET ORION:** **\$19.95**
L II, 16K by Automated Simulations
A hypothetical simulation of the various kinds of conflict that might arise in the far future between starships of opposing powers. The screen becomes a 36 x 64 battle grid. The ships can move, allocate energy to shields and fire missiles. The game can be saved on tape and returned to at a later point. Scenarios can be set up by you for a new game.
- STOCK EXCHANGE:** **\$15.95**
L II, 16K by Micro Fantastic
Simulation of the market. Each investor is allotted \$100,000 in the portfolio. Buy and sell stocks trying to make a profit. Market opens at 10 and closes at 4. Every four seconds adds two minutes to the stock clock. DJII arrow indicates whether the market is higher or lower than when the market opened.
- WHEREAMI?:** L II, 16K by Micro Fantastic **\$10.95**
A real-time arcade game for two. Direct your arrow to one of the boxes that appear on the screen. If you hit the box before your opponent does, you will score the points. Some of the boxes have a ? on them. There could be either plus scores or minus scores. Each player controls his own arrow with a set of four keyboard keys.
- WORDO:** L II, 16K by Micro Fantastic **\$14.95**
A master-mind type game played with words. The challenge is to determine in as few tries as possible, the five letter word which the computer has chosen. It can be played by one or two players. The computer will give you clues, after you enter a five letter word to help you guess at the secret word.
- GOMOKU:** L II, 16K by Discovery Bay **\$15.00**
An ancient Japanese board game of five in a row played on a 9x9 grid. The object is to get five continuous markers in a straight line before the computer does. It is a game of skill and logic.
- DUNJONQUEST:** **\$24.95**
L II, 16K by Automated Simulations
Temple of Apschai - A map of a portion of the dungeon and your status are displayed on the screen. You can move through the dungeon, into different rooms collecting treasures. You must avoid attack from the monsters who lurk in the various rooms and corridors.

SARGON I: LII 16K, Ply 6, by Hayden **\$19.95**
 This program easily won the 1978 West Coast Computer Faire Chess Tournament. With 6 levels of play, the computer can reply quickly (Ply 1) or at a higher level of playing ability have a longer computation time.

SARGON II: LII, 16K by Hayden **\$29.95**
 Offers seven levels of play. Levels 0 through 3 play in tournament time. The opening book is three moves for all seven levels. The time for the computer to analyze each move increases at every level. At level 7, it could take up to 4 hours to make a move.

SIMPLE SIMON: L II, 4K by TSE **\$4.95**
 Four routines to aid you in assembly language. After the program loads, you are prompted to type:
 D - disassembler, M - monitor, S - search memory, O - Z80 op codes.

BATTLE GRID: L II by Interactive Micro **\$7.95**
 An Electronic playing field for two people. The number, type and size of battle pieces can be specified by the players. It features high-speed graphics and continuous input action by both players.

ADVENTURE by Scott Adams _____

1 ADVENTURELAND: You wander through an enchanted world trying to recover the 13 lost treasures. You'll encounter wild animals, magical beings and many other perils and puzzles. Can you rescue the blue ox from the quicksand, or find your way out of the maze of pits?

2 PIRATES ADVENTURE: "Yo, Ho, Ho and a Bottle of Rum". You'll meet up with the pirate and his daffy bird along with many strange sights as you attempt to go from your lonely flat to Treasure Island.

3 MISSION IMPOSSIBLE ADVENTURE: Good Morning, your mission is to save the world's first automated nuclear reactor . . . plenty of suspense.

4 THE COUNT: You wake up in a large brass bed in a Transylvanian Castle. Who are you? What are you doing here? Why did the postman deliver a bottle of blood. You'll love this Adventure, in fact, you might say it's love at first byte . . .

5 VOODOO CASTLE: Will you be able to rescue Count Cristor from the fiendish curse, or is he forever doomed? Beware of the Voodoo Man . . .

6 STRANGE ODYSSEY: Marooned at the edge of the Galaxy you come across the ruins of an ancient civilization, complete with fabulous treasures and alien technologies. Can you collect the treasure and escape, or will you be forever marooned?

7 MYSTERY FUN HOUSE: The lure of Fun House is "the unexpected when you least expect it. This adventure is true to tradition, taking all your ingenuity just to get past the ticket counter. Prepare yourself for many thrilling and challenging hours in the Fun House!

8 PYRAMID OF DOOM: On a trek through the vast uncharted center of the Sahara Desert in search of a missing explorer, you come upon a pyramid recently exposed by the shifting sands. Will you join its denizens for that long eternal sleep, or will you be able to collect its treasures and escape?

0 ADVENTURE SAMPLER: A mini version of the adventure series, this program offers you a true adventure with hours (instead of weeks) of challenge. Try it . . . you'll like it!

WARNING: These programs may be addictive, leading to prolonged and habitual adventuring!

- | | |
|-----------------------------|----------------------------|
| 0 SAMPLER | 5 VOODOO CASTLE |
| 1 ADVENTURELAND | 6 STRANGE ODYSSEY |
| 2 PIRATES COVE | 7 MYSTERY FUN HOUSE |
| 3 MISSION IMPOSSIBLE | 8 PYRAMID OF DOOM |
| 4 THE COUNT | |

0 cassette only	\$4.95 ea.
1 - 2 on disk	\$24.95 ea.
3, 4 & 5 on disk	\$39.95 ea.
6 - 7 on disk	\$24.95 ea.
8 on disk	\$19.95 ea.
or any one adventure on cassette for	\$14.95 ea.

CRIBBAGE: LII, 16K by TSE **\$7.95**
 Play against the computer, using standard CRIBBAGE rules. He shuffles, deals, keeps score, and WINS if you're not careful. Cont.

HAMRADIO: LII, 16K by TSE **\$14.95**

The amateur radio data system 2.0 is comprised of several useful programs designed for ham radio operation. The proper use of these should enhance the efficiency of any amateur radio station. The choice of programs are:

- 1.1 Amateur frequency allocations
- 2.1 Ham ID timer
- 3.1 Q-Single File
- 4.1 Propagation Forecasting
- 5.1 Amateur Log routine with tape input/output

JOURNEY TO THE CENTER OF THE EARTH: **\$7.95**

LII, 16K by TSE

Collect the treasures and escape the creatures before you are killed. Your ship may have to be repaired before you can make the get-away.

TRANSATLANTIC BALLOON VOYAGE: **\$9.95**

LII, 16K by TSE

One to three players. Guide your balloon safely from Maine to France. Regulate your height, brave the elements, try to keep on course.

KAMIKAZE: LII, 16K by TSE **\$7.95**

You command the anti-aircraft guns as suicide planes dive toward your ship. Three levels of play.

SAFARI: LII, 16K by TSE **\$7.95**

Try to photograph wild animals in their natural environment to win a big movie contract. All kinds of problems to stop you.

TAIPAN: LII, 16K by TSE **\$9.95**

Relive the China Trade of the 1800's. Can you outwit your enemies to gain a million in profits? (Brother Wu wants you.)

X-WING II: LII, 16K by TSE **\$9.95**

12 levels of play, excellent graphics. Destroy the Death Star while avoiding the enemy fighters. Exciting 'real-time' game.

ALL-STAR BASEBALL: LII, 16K by TSE **\$7.95**

Two player game. Computer is the designated pitcher. Take your turn at bat and try to score that winning run. A game of skill and action.

'ROUND the HORN: LII, 16K by TSE **\$9.95**

Sail your Clipper from New York to San Francisco. Good Graphics. Up to 4 people can play.

SECRETS of the TAROT: L II, 16K by TSE **\$9.95**

Use the computer to predict your future. The program uses the Egyptian Tarot Cards consisting of 78 cards divided into the four suits of wands, swords, cups and pentacles. Five cards will be displayed on the screen and interpreted for you.

TREASURE-HUNT: L II, 16K by TSE **\$7.95**

The Lumus caves have 20 treasures hidden in them, but few people have explored them because of the dangers that lurk within. The computer will be your eyes and ears while you explore the caves. Each cave is numbered and you will enter the number of the cave that you want to explore. From that cave, you will be able to enter other caves. The computer will tell you which caves you can enter from the cave that you're in.

Programming Hint!

Running out of string space? Clear twice the average amount of bytes of the strings you are concatenating. Clear 200 – not 100 if your strings average 100 bytes.

PENTAMINOES: L II, 16K by TSE **\$9.95**

Played on four different grids – place the different shapes on the grid to fill it in entirely, Pieces can be flipped or rotated before they are placed on the grid. Pieces can be moved from the grid and replaced in another position.

ROBOT/BREAKAWAY: L II, 4K by TSE **\$7.95**

You are being attacked by robots represented by (O). Your man is represented by the (X). Move him by using the up, down, left and right arrows. Be careful not to run into any fences or robots. Great for young kids.

EDUCATIONAL

TOUCH TYPING I & II: L II, 16K by L. Ashmun

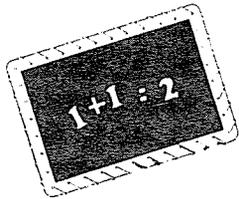
I. For beginning typists. Helps you to learn the keyboard. With graphics.

II. Two different typing drills – timed and untimed – using randomly chosen words to help you improve your typing skills. With graphics.

Both Typing programs

\$22.50

cls Super Math Series



With documentation. Over 25 different lesson courses in each program.

cls Super Add \$24.95
For ages five to adult

cls Super Mult \$24.95
For ages eight to adult

cls Super Add: LII 16K cls Super Mult: LII 16K
Best Addition and Multiplication Packages
Ever Offered

Teacher Written – School Tested

– ADDED BONUS –

You can add a 4k game (of your own) to either of the above programs for a "reward" system of learning.

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3. Fish - (Grade 3-6) Played like the card game 'Fish', the player and the computer are dealt 'word' cards. Ask the computer for the homonyms to your cards, and the computer will ask for homonyms for its cards. Score two points for each pair of homonyms. Try to make more word-pairs than the computer.

4. Word-Mate - (Grade 3-6) Both you and the computer are dealt 'word' cards. Match two of the words in your hand to form a compound word. The computer will do the same. Try to match all the words in your hand before the computer does.

5. Word Scramble - (Grade 1-4) There are five levels of play in this program. A scrambled word appears on the screen and the player must try to unscramble the word. The words in the DATA list are the 250 most common words introduced to children at the lower reading levels.

* All the programs contain sound effects.

Each on Cassette **\$9.95**

5 program disk package **\$25.00**

* Can be purchased on disk (requires 32K) as a five program package, or individually on cassette.

EDUCATOR ASSISTANT: L II, 16K by TSE

This program offers a menu of routines to aid the teacher in her grading. The routine includes:

1. Percentages
2. Individual Averages
3. Z-scores and standard scores
4. Individual averages and class averages
5. Class summary and grade assignment

THESIS I

ENGLISH FUN: L II, 16K by L4.

Contains 5 programs designed to aid children in word usage and spelling. The programs are aimed at elementary school children, but could be easily modified for any grade level.

1. Guessword - (Grade 6+) Based on the popular TV game, this program asks the child for a synonym to the word. Points are scored for giving the correct word. Up to two people could play this game.

2. Wanted - (Grade 4-8) The words are fugitives and you are the detective. Clues for the words are displayed like an FBI wanted poster. Can you track down the words with the given clues?

SUPER ADD: L II, 16K by C.L.S. **\$24.95**

Designed to improve addition skills for children and adults alike. The program is divided into three categories - kindergarten, basic and C.L.S. facts. Each level presents timed problems. If the problem is not answered in the allotted time, visual aids (asterisks and pound signs) representing the values of the problem will appear on the screen. If an incorrect answer is given, the correct answer will be given and the problem will be reviewed with the user before going on to the next problem. The program is subdivided into 36 learning modules, each progressively more difficult. This program also has an optional reward feature. If desired, the program will reward the user with a game after the module is completed.

SUPER MULT: L II, 16K by C.L.S. **\$24.95**

Divided into 25 learning modules, the user can learn to multiply at progressively more challenging levels. The user sets the timer for the amount of 'thinking' time that he wants. If the problem is not answered in that time period, the correct answer appears on the screen and the problem is reviewed with the user before progressing to the next problem. This program also has the optional reward feature as a positive reinforcement tool.

BUSINESS

TRS-80 DISK PAYROLL: 32K Disk **\$59.95**

- Runs under Radio Shack Disk Basic
- Handles and number of employees
- Payroll check information can be printed on line printer
- Quarterly summaries can be printed on line printer
- Completely automated file handling, no cassettes
- Comprehensive manual with step-by-step instructions
- Disk Payroll is interactive, can be run by anyone

PROGRAMS FOR THE AMWAY PRODUCT DISTRIBUTOR:

LII, 16K **\$24.95**

(1) Order checking program. Enter the quantity, C or E (for case or each) and the stock number. Over 270 of the most-used products are held in memory. The computer finds the prices, multiplies them by the quantity (and the number in a case, if necessary) and prints the PV, BV, cost and retail near the top of the display. These numbers are also held in your adding program. When you reach the end of your order, enter zeros and the computer draws a line and totals all columns, adds tax and handling, then gives you the grand total! You can even make changes or review the numbers. Non-taxable items are automatically deducted from the tax too!

(2) Simplified bookkeeping: This program will not replace your expense ledger, but it will add twelve columns at once, and accumulate the totals for each page!

(3) Distributor organization: Alphabetically list all your distributors, or all in any group, or all sponsored by any one, or sponsor and group of any distributor! Also indicates which distributors are not renewed!

QUARTERLY UP-DATES DATA FILE: **\$10.00**

For new prices.

MAILING LISTER II: 48K, Disk, by L4 **\$79.95**

Same as on previous page but with new larger capacity input - Sort 350 names. List in 10 seconds or LESS - YES 10 Seconds or LESS!

All files from our previous Mailing Lister Programs work in this latest version! CALL FOR UPGRADE INFORMATION!

INVENTORY II: by L4 **\$99.95**

On-line inventory control. This system gives control at point of sale with information on part number.

Part Number-Description-Vendor-Reorder Point

Wholesale-Retail-# On Hand-# On Order

MAXIMUM seek time for every item is 20 seconds, 8 seconds average. If 4-40 track drives are used up, to 6000 items can be kept track of with no changing Disks.

SPECIAL NOTE: With this system you can not just use extra Diskettes to enlarge your Control System. The Diskettes must not be removed until the system is exited. System

automatically adjusts to the growth of your system. Requires 1 to 4 Drives. 48K.

BOWLING STATISTICS: by Real-life Simulations **\$29.95**

For disk users. Keep track of a complete Bowling League. A super program.

OPERATING SYSTEMS

TRSDOS-2.3: Disk Only **\$14.95**

Radio Shacks upgraded Disk system. **Special order only.**

NEWDOS: Disk only, by Apparat, Inc. (35 Track)* **\$49.95**

an expanded "fixed" 2.1 DOS. Corrects over 70 errors and omissions in TRSDOS-2.1. Once you try NEWDOS you'll wonder how you ever got along without it. You must own Radio Shacks 2.1 DOS to buy this (Licensing agreement).

NEWDOS+: **\$99.00**

Disk Only, by Apparat, Inc. (35 Track)*

Same as above with a library of special utility programs. Includes:

Superzap - Recover lost files and programs

Lmoffset - Transfer SYSTEM tapes to Disk

Dircheck - Tests and lists Disk Directory.

Lvidsksl - Saves and loads L1 programs to Disk.

Level I - LI Basic on Disk.

and more! *40 or 77 track version \$10.00 extra.

LEVEL I RELOCATED : LII, 16K by Apparat, Inc. **\$15.00**

Run Level I Basic in your Level II machine. Machine language program that over-rides LII and puts you back into L1.

MMSFORTH: Disk Only, by MMS **\$64.95**

A very professional version of this fast and powerful language, specifically written for the TRS-80. Includes documentation and demo programs. Requires Primer.

TRS FORTRAN: Single Drive, by Micro Soft **\$95.00**

Comes with: Forlib/Rel., Edit-80, Fortran Compiler, Link-80.

MACRO ASSEMBLER: **\$95.00**

Single Drive, by Micro Soft

Macro Assembler, Loader, Editor and Cross Reference Utilities.

COMPLETE DOCUMENTATION FOR ALL THE ABOVE.

CP/M: **\$149.00**

Operating system for the TRS-80 Model I.

PERSONAL _____

PERSONAL FINANCE: LII, 16K by Lance Micklus **\$9.95**

This is a 2 program package. Checkbook is used to maintain your checking account and Checkfinder maintains a file of all your cancelled checks. Thirty-three different budgets can be set up to assign each check to. The budget names are in DATA statements at the end of both programs so they may be easily changed by the user to fit his individual needs.

Checkbook includes a test date generator which may be used to demonstrate the program, or to make test runs on the program without the need to use real checks. The menu format makes it easy to change functions, and the program is human engineered to require the least number of keyboard actions. The design of the program is such that human error is minimized. Besides maintaining a balance, the program will justify your account against the bank's monthly statements. There's even a bill estimator to help you decide who gets paid this month.

Checkfinder gets the cancelled checks from a data tape generated by the Checkbook program, and builds a cancelled checks file. It will locate cancelled checks for you and total the amount of all checks found. So, if one of your budgets was alimony, it will locate every alimony check that came back from the bank. Very impressive to the IRS! A modified bubble sort will rearrange the file in memory and save it on tape. Checkfinder will store 900 checks in memory on a 16K machine. We assume no liabilities regarding the use of these programs.

ADVANCED PERSONAL FINANCE: **\$24.95** L II, 32K Disk by Lance Micklus

This version includes all the features above PLUS an advanced analysis routine. **Supports Disk Files.**

HOME FINANCIAL MANAGEMENT: **\$9.95** LII, 16K by M. D. Kelleher

Turns your computer into a personal financial advisor. Easy to use, yet complete enough to be of real use. Features include: Loan payment amount, savings balance, dividends and withdrawals, earned interest rate, true cost of automobile, budget, cost of borrowing, balance of loans still owing, probability of obtaining a loan, plus more!

WIN 21: L II, 16K by Discovery Bay **\$19.00**

More than just a blackjack program, Win 21 will help you improve your playing skills. You select the strategy and Win 21 coaches you at betting, insuring, splitting pairs, doubling down and drawing. There are four different strategies to practice and five levels of programmed coaching. Play until you have mastered the powerful point-counting technique.

UTILITIES _____

DOSORT: 32K-48K, DOS 2-4 drives by Racet **\$34.95**

Utilizes machine language subroutines for sorting and comparing. Multi-volume (diskette) files may be sorted or merged on a minimum 32K two-drive system. Data files may be spread across several diskettes.

COPYSYS: L II, 16K by Racet **\$14.95**

Allows the user to duplicate system tapes. Can also be used to combine an assembly language program composed of several independently compiled sections.

INFINITE BASIC: L II, 16K by Racet **\$49.95**

Provides a wide range of facilities not previously available. Two program package contains Infinite String – which provides 50 different functions for string manipulation including justification, truncation and rotation. Infinite Matrix – provides 30 functions involving arrays and matrices. Included are matrix inversions, simultaneous equations and matrix arithmetic.

INFINITE BUSINESS: L II, 16K by Racet **\$29.95**

Provides 20 functions for business applications including automatic printer pagination, header/footer system and hash encoding functions.

COMPROC: L II, 16K by Racet **\$19.95**

Enables the user to automatically execute a series of systems or BASIC commands. This provides the user with a convenient method for performing repetitive operations.

***INFO SYSTEM:** L II, 32K Disk by TBS **\$34.50**

This program is a cataloger of data. It can be used to store recipes, mailing lists, personnel records, telephone numbers, catalog books, records, etc. Extremely versatile since the user can label the fields for his needs, program the field lengths and program the print out. Handles disk or cassette files.

***SYSTEM DOCTOR:** L II, 32K Disk by TBS **\$38.50**

Do a diagnostic check of your whole computer system. It lets you know if something is wrong with your computer before you spend time programming or entering data. It checks ROM, checks RAM 6 different ways, checks the disk drives to ensure reliability, check video display memory, does a 12 hour check of the entire system, printing the results to the printer, cassette, diskette, or screen.

***LINE PRINTER:** L II, 32K Disk by TBS **\$28.50**

This program will allow you to perform printing functions
Continued

*NOTE: The above marked programs must be used as is. Due to the way the programs are written, they can not be modified.

as a background task. This means that the printer can be operating while you are entering data or while the disk drives are operating. It also features — single statement listings of programs, set margins and page lengths and printing of page numbers on each page.

***ANALYSIS PAD: L II, 48K Disk by TBS \$29.95**

Designed as a programmable calculator this program features the ability to work on whole columns of figures at a time, add, subtract, multiply or divide one column by another, combine or access all or part of analysis files into any designated format, repeat calculations on columns using different variables and work on 20 to 30 or more columns at a time.

***CHECK REGISTER ACCOUNTING SYSTEM: \$49.50**

L II, 32K Dual Disk by TBS

Designed to do your accounting for the entire year, this program allows you to input check register transactions, print the check register statement, print checks, transfer data for continuation of new year, and print account distribution statements. Requires dual disk and printer.

*NOTE: The above marked programs must be used as is. Due to the way the programs are written, they can not be modified.

SYSTEM COPY: LII, 16K by Kalman Bergen \$9.95

Makes back-up copies of continuous type object ("system") tapes. Features include copy, verify read, rename, verify write. No knowledge of machine language required.

ST80-D: for 32K Disk systems, by Lance Micklus \$79.95

Contains extensions for disk drive systems to exchange files with a timesharing computer or another TRS-80. Can be customized by redefining translation tables. Can transmit any type of TRS-80 ASCII file, also binary files. A practical, full-feature terminal program of professional quality.

**ELECTRIC PENCIL: LII, 16K tape \$100.00
DISK version \$150.00**

by Michael Shrayner

True word-processing system. Change, delete, insert until copy is perfect. Fully adjustable margins, left-right justification, variable spacing, page headings. Save and recall text with tape or disk.

PENCIL/PAL: L II, 32K Disk \$34.95

INTRODUCTION —

PENCIL/PAL is a form letter generator. This means that repetitious correspondence or form letters may be automatically printed and addressed to a list of recipients. The list of recipients is in the form of a file of addresses. Each

name and address is then automatically "merged" with the body of the letter, such that the inside address and greeting appear as though they were typed individually. This effect, of course is enhanced if a "letter-quality" printer is employed.

FEATURES —

A - Address files and letter files are entered using the easy-to-use Electric Pencil word processing system (TRS-80 disk version available for \$150). This means that entering information into your address file and typing your letters are accomplished with the utmost ease. The Electric Pencil has the reputation of being the easiest to use of all the available word processors (Creative Computing, October, 1979).

B - There are no limits to the size of your address "fields".

C - Your letter's greeting may be to "Dear Joe:"

D - An additional line is allowed in your address file, which will not appear on the letter for a phone number or a custom code of your choice.

E - One or two "select codes", consisting of any string of characters.

F - If continuous forms used (services are available which attach your letter head to continuous forms) on the printer, a letter to each of the addresses in the file may be produced without operator intervention.

G - Lower-case is supported.

H - Labels (any size) or envelopes may be automatically printed.

SYSTEM REQUIREMENTS

The following is a list of the minimal hardware and software that is required to operate the PENCIL/PAL form letter generating system.

HARDWARE

TRS-80 Level II Microcomputer System w/16K RAM, Radio Shack Expansion Interface w/16K RAM, 1 Disk Drive, Printer (parallel or serial RS232), Lower case modification kit.

SOFTWARE

TRSDOS 2.2 or NEWDOS+ (recommended), Disk Basic 1.1, Electric Pencil (disk version).

LEVEL IV GRAPHICS: LII, 16K by L 4 \$14.95

The ONLY way to write programs using GRAPHICS. It's a machine language program that allows you to turn your keyboard into a GRAPHICS KEYBOARD. No hardware modifications are required to run this program! Not compatible with DISK BASIC.

RSM-2: LII, 16K by Sm. Sys. Software **\$26.95**
 Machine language monitor. Some features listed below:
 ASCII DUMP HEX DUMP EDIT
 SYMOBLIC DUMP USER MOVE
 OUTPUT MEMORY TEST

Plus 18 other commands.

MISOSYS TAPE UTILITY: L II, 16K by Acorn **\$14.95**
 A software package that aids the user in machine language programming, debugging and various utility functions. Some of the features are the ability to examine, clear, move and modify memory, compare and search memory for strings, establish breakpoints, display and modify registers.

MISOSYS DISK UTILITY: LII, 16K by Acorn **\$19.95**
 Same as above for disk.

MISOSYS DISASSEMBLER: L II, 16K by Acorn **\$19.95**
 Machine language program disassembles any machine language program in ROM or RAM. Enter the starting and ending addresses of the program to be disassembled. Hard copy of the disassembled program can be stored on cassette.

SYSTEM SAVERS: L II, 16K by Acorn **\$14.95**
 A package of two machine language utility programs, FLEXL and TDISK. FLEXL will permit the merging of two or more system tapes and provides the capability to produce your own system tape. TDISK will allow you to use any system tape from disk, even if the programs contain non-continuous blocks.

DDT: L II, 16K, 32K, 48K Disk by DTEC **\$19.99**
 Disk Drive Timer— Works with any disc drive, this program lets you analyze and adjust disc driven motor speed within a tenth of an RPM with a real-time graphic display.

TSHORT (WEB): L II, 16K or Dos **\$9.95**
 Saves up to 90% programming time. One shifted key-stroke enables you to spell out statements on the monitor. Comes with pressure sensitive labels for your keyboard.

GSF: LII, 16K-48K by Racet Computes **\$24.95**
 A collection of machine language sub-routines that interact with BASIC. Some features:
 Display screen control (scrolling up, down, left, right, etc).
 Draw lines (horizontal and vertical).
 Move Data.
 Compress and Uncompress Data. In memory SORT. (1000 items in 9 sec.).
 Makes the TRS-80 LII a powerful machine.

RSM-2D: **29.95**
 Disk Only, 16K-48K by Sm Sys. Software
 Same as RSM-2 but DISK ORIENTED.

RSM-2/2D RELOCATOR: **\$9.95**
 L II, 16K by Sm. Sys. Software
 Put RSM-2/2D anywhere in memory. This new program loads with the RSM-2/2D "L" tape command, then asks you where you want RSM-2 located. Your answer causes a new version to be created and executed! Instructions included for saving your new versions.

TRS FORMATTER: LII, 16K Sm. Sys. Software **\$14.95**
 "Formatter" software package. Enhanced software for use with Level 2 Basic and our TRS 232. Page and line length control, form feed function, printer, pause, "smart" line termination, indented continuation lines, keyboard, de-bounce, echo screen to printer, etc. Includes Basic Cassette plus both Basic and Machine language source listings.

LENDOS: **\$29.95**
 L II, 32K-48K Sys. Mem., Disk only by Lenco Equip. Co. Super enhancement to TRSDOS or NEWDOS. Instant menu and single key running of programs. Nice addition to any custom program for a customer.

KVP: LII, 16K by Lance Micklus **\$29.95**
 Machine language program allows you to build custom routines to control your keyboard, video monitor, and printer. Eg. (How many characters per line on a printout, reverse upper and lower case for the keyboard, screen printer type function for regular line printers, etc.). Now with Super Graphics feature.

KVP-232: LII, 16K by Lance Micklus **\$29.95**
 Same as above but works with the TRS232 from Small System Software.

DCV-1:2.2: LII, 16K by Sm. Sys. Software **\$9.95**
 Load DCV-1 then load your machine language program. DCV-1 will then display the beginning and ending address, execution point, and program name on the screen, plus addresses to use program under DOS.

AUTOK/QEDIT: **\$14.95**
 LII, 16K by Discovery Bay Software
 Add auto repeat and a quick editor to your TRS-80. A machine language program that expands the capabilities of your computer.

KEY/EDIT: **\$19.95**
 LII, 16K by Discovery Bay Software
 Same as above with one key LII commands added.

REMODEL: LII, 16K-48K by Racet **\$24.95**
 Renumbers programs from start to finish or any block of

Continued

lines within a program. Moves a block of lines to another section of the program. Very versatile renumber program. Works Under DOS.

REMODEL/PROLOAD: LII, 16K-48K by Racet **\$34.95**
Merges BASIC programs from tape. Must be used with REMODEL.

RAMEDIT: Cassette **\$29.95** Disk **\$34.95**
L II, 16K – 16K-32K Disk by L4

Permits you to change a specific item throughout a BASIC program without searching/editing each line. Although RAMEDIT is initially executed in BASIC, it executes a machine language routine 157 times faster than BASIC and does not need 'memory size' allocated. It requires 3900 bytes for operation, which includes 766 bytes for strings.

LEVEL III BASIC: L II, 16K by Micro Soft **\$49.95**
A powerful enhancement to Radio Shack TRS-80 Level II BASIC. Features added with Level II include advanced graphics, line renumbering, long error messages, quick shift-key entries, new SAVE and LOAD commands, time-limit INPUT statements and keyboard debounce. Plus, all the features of Disk Basic that are not already a part of Level II, with the exception of file management commands, are included. Level III comes on cassette tape, includes complete manual and resides in 5.2K RAM memory.

MAIL LIST PROGRAM: Cassette **\$25.00**
L II, 16K by L4

A set of programs which will enable you to create and maintain a Mailing List on cassette tape. Some of the features are – it requires no punctuation or format for the input of information, files are merged into one string for storage on tape, and can search for a file by using a part of a file or information on a line.

RENUMBER: **\$7.95**
L II, 4-16-32-48K Tape Only, by Lance Micklus

A two program package contains a renumbering utility and a rescue routine. The renumber program enables the user to renumber a program. A 'no errors' message will appear on the screen if there are no undefined line numbers. If there are no errors, the program will be renumbered and you will return to BASIC. If there are errors, you will return to BASIC and the program will remain UNCHANGED. The RESCUE routine will restore a program that under most circumstances would be lost. It will restore a program that is in memory and the NEW command has been entered. It will also restore a program that you may have been saving to tape, but type CLOAD Instead.

XREF: L II, 16K, Tape Only, by Lance Micklus **\$19.95**
This program will produce a cross reference of all line numbers referred to by any other line in the program. It will

also produce a listing of all variables used in the program with the line numbers they appear on.

RENUMX: LII, 16K, Tape Only, by Lance Micklus **\$24.95**
A three program package containing the three utilities described above.

RX: L II, 16K by Lance Micklus **\$24.95**
Produces a cross-reference table of all line number references, and all variables used along with the line numbers they appear on for any TRS-80 Level II or Disk BASIC program. This is an excellent aid for developing and debugging programs, as well as the professional way to document the finished program.

BASIC TOOLKIT: L II, 16K Tape, by TBS **\$19.80**
Gives listings of each variable used with the line numbers that they appear on and the number of times they appear on that line, lists destinations of goto and gosub statements. It can recall a program after you accidentally hit reset, type NEW or booted back to DOS. Does a memory check to make sure every location is operable.

CP/M 2.0: Model II, Sm. Sys. Software **\$179.00**
Uses standard CP/M for the programs, compatible with the Model II.

VIDEO PAGER: L II, 4K by Acorn **\$9.95**
This machine language program allows the TRS-80 to be used as a message center. It features up to 26 pages of information for 16K of memory, complete program in the 32 character per line mode for easy reading and use on standard television sets, pages can be displayed for anywhere between 1 second and one and a half minutes each, all pages can be saved on cassette, and pages can be merged using the cassette routines.

EDITOR/ASSEMBLER PLUS: **\$29.95**
L II, 16K Cassette by Micro Soft

Contains all the features of the original Radio Shack Editor/Assembler plus T-Bug all in one cassette package. In addition, Editor/Assembler Plus adds major new features previously available only on large computers. It eliminates the need to create both source and object tapes by assembling directly into memory. It supports macros and conditional assembly too. Z-Bug, the most powerful debugger available for the TRS-80 has single step execution, direct execution in calculator mode, symbolic references, and the ability to use up to 8 breakpoints at a time, with no need to remove a breakpoint before proceeding. New editing commands such as Substitute, Move Copy and Extend simplify editing. For the Level II TRS-80 with 16K.

C BASIC 2: Compiler Basic \$95.00
For TRS-80 and runs under CP/M. Model I.

FORTRAN: by Micro Soft \$95.00
Single Drive. Comes with Forlib/Rel. - Edit 80 - Fortran Compiler and Link 80 and complete documentation.

MACRO ASSEMBLER: by Micro Soft \$95.00
Single Drive includes Macro Assembler, Loader, Editor and Cross Reference Utilities and complete documentation.

THE BOOK MART

ALSO SEE LATE ARRIVALS

RADIO SHACK DOS MANUAL: \$5.95 + 1.50 ship.
The paper back version of the manual that Radio Shack provides with their Disk Drives.

ASSEMBLY LANGUAGE PROGRAMMING: \$3.95
Radio Shack + 1.50 ship.
The best current introduction to machine language at a low price. The intermediate level discussion of what you can do in machine language.

SOFTSIDE \$2.00
PROG-80 \$3.00
80-US \$3.00
80-MICROCOMPUTING \$2.00

We carry ALL back issues that are in print.
All above books based on the TRS-80 only.

SYSTEMS EXTENTIONS (Limited Supply) \$3.00
BASIC HANDBOOK \$14.95
OSBORNE - AR/AP C/Basic \$20.00
OSBORNE - GENERAL LEDGER C/Basic \$20.00
OSBORNE - PAYROLL C/Basic \$20.00
MMSFORTH PRIMER \$14.95

BOOKS by Hayden

BASIC BASIC: \$9.45
Over 100 sample programs illustrate the essential techniques of BASIC. Each language statement is explained at the time that it is first used in a sample program. Every section is followed by practice problems with the solutions to the even-numbered problems appearing in the text.

ADVANCED BASIC: \$9.65
Increase your understanding and ability to write programs. The development of each topic progresses from simple to more sophisticated problems and is accompanied by many sample programs to clarify the discussions.

Z-80/8080 ASSEMBLY LANGUAGE PROGRAMMING \$7.95

Giving an introductory look at assembly language for the Z-80 and 8080 processors, it is intended to provide just about everything the applications programmer needs to get the most out of his/her machine. Programming techniques are provided along with instructions, diagrams, and examples. Exercises along with answers make it ideal for self-study and schools.

SARGON: \$15.95
A Computer Chess Program. Meet Sargon, the program, complete program listing of Sargon written for the Z80, winner of the first chess tournament held strictly for microcomputers (1978 West Coast Computer Faire). The program is completely documented.

STIMULATING SIMULATIONS: \$4.95
This handbook contains twelve "simulation programs" which are actually game programs. They are written in BASIC and are well documented. With each program is a listing, sample run, instructions and ideas for variations.

BASIC: FROM THE GROUND UP. \$9.65
Newcomers to the computer field can learn BASIC from this book that does not require a heavy mathematical background on the reader's part. Sample programs explain the BASIC statements. Variations in the language are pointed out.

SIXTY CHALLENGING PROBLEMS with BASIC SOLUTIONS: \$6.95
Measure your programming skills and have fun. This book contains sixty games, puzzles, mathematical recreations, science problems and business problems for reinforcing programming skills.

PROBLEMS FOR COMPUTER SOLUTION: \$5.95
This book offers a wide selection of problems for solution. It is intended for teachers and students who want more diverse problems than those offered in programming language textbooks.

THE BASIC WORKBOOK: \$6.45
A hands-on approach to learning BASIC and the fundamentals of problem-solving using a computer. Over 20 flow-charts and nearly 50 illustrative programs give the book a "how-to" flavor.

STORAGE MEDIA

DISKETTES

- NATIONAL BRAND \$32.50
 Special offer (Limited Supply) box/10.
 VERBATIM box/10 \$40.00
 MEMOREX box/10 \$45.00
 WABASH (For 77 Track Drives) box/10 \$60.00
 VERBATIM 8" (for Model II) box/10 \$50.00
 HARDSHELL LIBRARY BOXES (for Diskettes)... \$3.50
 DISK SLEEVES \$1.25 ea.
 (For 3 Ring Binder) or 5 for \$5.00

CASSETTES

- DATA TAPES \$1.00

We also carry a large supply of Ribbons for the Printers we sell.

PAPER

- 9½ x 11 twenty # White \$31.95/box
 9½ x 11 fifteen # Green Bar \$29.95/box

HARDWARE

The following information has been compiled from manufacturers specification sheets, to assist you in making the selection of a disk drive that will do the best job in your application.

PARAMETERS

Manufacturer	MPI	MICROPOLUS	RS
	Ansi Standard 5.25 Diskette		
Media			
Number of TKS	40/80*	77	35
Track Density	48TPI	100TPI	48TPI
Start/Stop Time	.5 Sec.	70 Msec.	Not Available
Rotation Speed		300 RPM	
Average Latency	100 Msec.	100 Msec.	Not Available
Head Load Time	35 Msec.	75 Msec.	Not Available
Access Time	5 Msec.	30 Msec.	40 Msec.
Head Settling	15 Msec.	10 Msec.	Not Available
Head Life	20000 Hrs.	Not Available	Not Available
Media Life	30,000,000	Passes	Not Available
Storage Cap.	100K/200K* Bits	192.5K Bits	87.5K Bits

Msec. = Microseconds Tpi = Tracks Per Inch

MPI

The above shows two values for some of the specifications This is because MPI has two models of Disk Drive. The Model 51 (single head) and the model 52 (double head). The Model 52 is the equivalent of 2 disk drives in the same unit.

These units are compatible with all of the currently available software sold on diskettes for the Radio Shack computer. They will run equally well with TRS DOS or any of the other operating systems now available, eg. NEW DOS 3.0 or TRS DOS. No consideration has been taken regarding the quality of the three operating systems mentioned, (although Level IV uses nothing but NEW DOS+).

MICROPOLUS

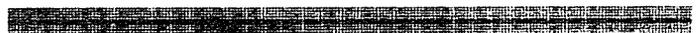
These Disk Drives have, at present, the highest data storage capacity of any 5.25" unit presently available for use with the TRS-80 computer. They are single head, single sided.

The only drawback with Micropolus drives is that commercially available software will not load, as with MPI disk drives, because of a higher track density.

There are two ways that your existing software can be transferred. Dump to tape then reload onto disk or use a standard 40 Track Disk Drive Down-Line and copy all of the programs individually to the 77 track units. The latter being faster and much more accurate.

All of our existing users have decided to use the second option and have kept at least one of their existing drives.

The operating system for Micropolus is NEW DOS.



I N V A D E R S

WITH SOUND (C) 1979

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(*:)
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You are the last line of defense against the INVADERS. You have 5 rocket launchers, and you must destroy all the ALIENS; but they are a stubborn group. If you destroy all in sight, another attack group is sent.

This machine language program will be the best game in your library.



DISK DRIVES

40 TRACK 5¼ INCH DISK DRIVE Drive only \$279.00

Same as above with Power Supply & Case \$399.00

35 TRACK DUAL HEAD DRIVE Drive only \$375.00

DUAL DISK DRIVE in Single Case \$698.00
With Power Supply and Cable

DOUBLE HEADED DUAL DISK in Single Case \$999.00
With Power Supply. Equal to 4 Radio Shack Drives.

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In single case with one plug, cable and one on-off switch.
COMPLETE.

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Triple Drive Unit (585K) \$1,900.00

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(Level I)

Load & Save Level I Tapes
- Gives 11.2 K User Space -
Level I Relocated
by Apperat, Inc.
Requires 16K Ram

\$15.00 **\$15.00**



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PRINTERS

OKIDATA MICRO-LINE 80 See Page 17

BEST BUY

ANIDEX PRINTER:* List \$1,095.00
9 x7 Matrix, upper and lower case print, RS 232, Parallel interface, Adjustable Tractor Feed, 1 K Buffer. Requires Cable.
Our Price \$995.00
Requires Cable \$35.00

R.S. QUICK PRINTER II:* (List \$219.00) **\$200.00**

CENTRONICS-779-2:* **SPECIAL \$1,095.00**
Same as R.S. Tractor Feed, 60-110 cps.

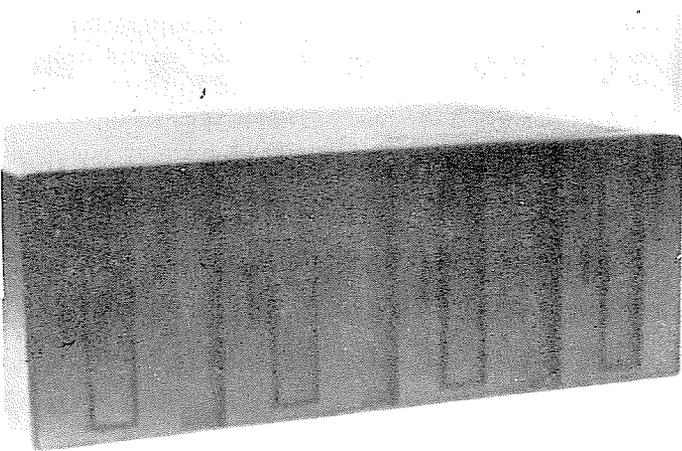
HEATHKIT H14 CKT ADAPTER BOARD: \$99.00
It converts serial H14 to a centronics parallel that plugs into expansion interface.

NEC SPINWRITER 5510: \$2,895.00
Up to 55 cps with TYPWRITER QUALITY. List \$3,195.00.
Our price includes:
Tractor Feed, TRS232, Software Driver, all Cables and Connectors. Don't be fooled by others' "so called" low prices.

DAISY WHEEL Word Processing Printer: \$2,895.00
List \$2,995.00

NEW from Radio Shack. Call for price and delivery. Sent Freight Collect. WD-50.

*Requires cable \$35.00



131 =	132 =	133 =	134 =	135 =	136 =	137 =	138 =
139 =	140 =	141 =	142 =	143 =	144 =	145 =	146 =
147 =	148 =	149 =	150 =	151 =	152 =	153 =	154 =
155 =	156 =	157 =	158 =	159 =	160 =	161 =	162 =
163 =	164 =	165 =	166 =	167 =	168 =	169 =	170 =
171 =	172 =	173 =	174 =	175 =	176 =	177 =	178 =
179 =	180 =	181 =	182 =	183 =	184 =	185 =	186 =
187 =	188 =	189 =	190 =	191 =	192 =	193 =	194 =
195 =	196 =	197 =	198 =	199 =	200 =	201 =	202 =
203 =	204 =	205 =	206 =	207 =	208 =	209 =	210 =
211 =	212 =	213 =	214 =	215 =	216 =	217 =	218 =
219 =	220 =	221 =	222 =	223 =	224 =	225 =	226 =
227 =	228 =	229 =	230 =	231 =	232 =	233 =	234 =
235 =	236 =	237 =	238 =	239 =	240 =	241 =	242 =
243 =	244 =	245 =	246 =	247 =	248 =	249 =	250 =
251 =	252 =	253 =	254 =	255 =			

Good Morning, VIC. THIS IS THE 132 COL. SIZE

Good Morning, VIC. THIS IS THE 80 COL. SIZE

Good Morning, VIC. THIS IS THE 40 COL. SIZE

THE MICRO LINE 80 PRINTER DOES ALL THIS FOR ONLY \$945.00 AND THROUGH APRIL 30, 1980 YOU WILL RECEIVE THE OPTIONAL TRACTOR FEED ATTACHMENT (LIST \$140.00) AT NO EXTRA CHARGE

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PHONE 1-800-521-3305 OR 1-313-525-6200 INSIDE MICH

MICRO-LINE 80

NEW FOR YOUR TRS- 80*

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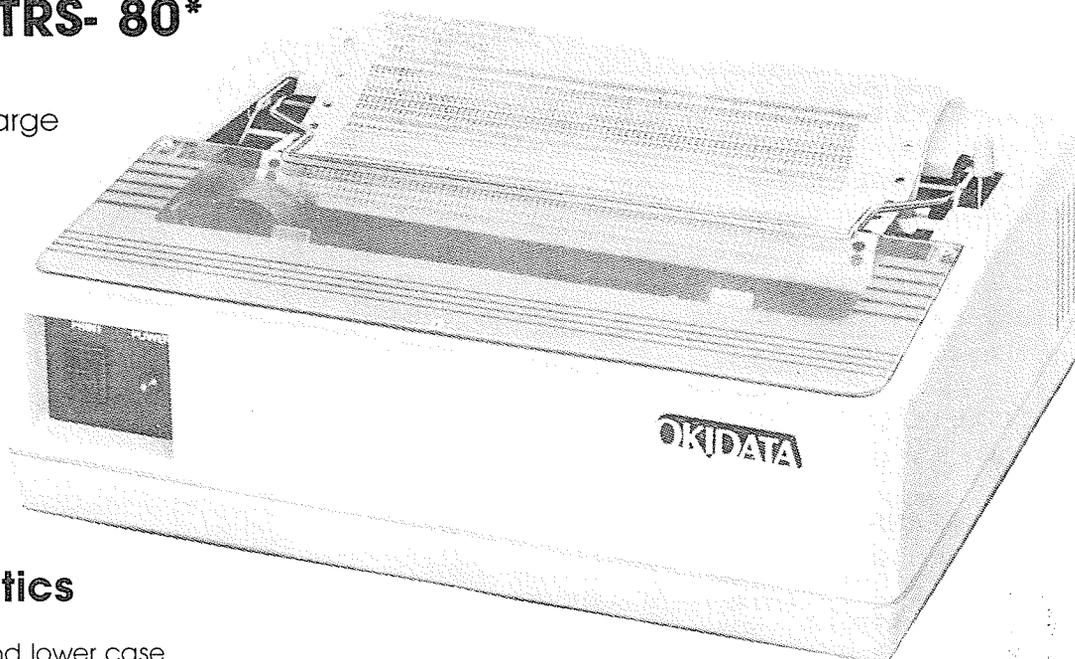
Tractor Feed – \$140. Extra

Cable – \$35. Extra to E.I.

LIMITED TIME
SPECIAL!

\$945.00

Including Tractors
and Parallel Interface
at No Extra Charge!
Cable \$35.00



Printing Characteristics

Matrix	9 x 7
Font, program selectable	Upper and lower case, single and double width
Character width	0.071"
Character height	0.104"
Character spacing	80 column, 10 cpi 132 column, 16.5 cpi
Dot size	0.015"
Character set	Full 96 character ASCII plus basic graphics set
Graphics	Block graphics capabilities are standard

SEND 25¢ for SPRING CATALOG.

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1-800-521-3305 Order Line

1-313-525-6200

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NEW & USED TRS-80's

	NEW LIST	NEW OUR PRICE	USED WE'LL PAY	USED WE'LL SELL
TRS-80 4K Level 1	499	450	275	400
TRS-80 16K Level 1	729	650	350	500
TRS-80 4K Level II	619	550	375	500
TRS-80 16K Level II w/KP	849	769	475	650
TRS-80 16K Level II w/o KP	-	650	450	625
Key Pad	79	69	-	-
Expansion Interface OK	299	269	150-	225
Expansion Interface 16K	448	404	225	325
Expansion Interface 32K	599	539	275	425
Expansion Interface 16K*	-	368	200	300
Expansion Interface 32K*	-	460	250	375
R.S. Friction Feed Printer	1299	-	500	700
R.S. Tractor Feed Printer	1595	-	550	750
Printer II	995	895	500	700
Printer III	1995	1795	900	1500
Radio Shack Mini Disk 0	500	-	245	300
Radio Shack Mini Disk 1-3	500	-	225	295
RS-232	99	89	40	65
Telephone Interface II	199	179	100	150
16K Memory*	-	99	-	-
Keyboard to Printer Interface	59	55	20	35

*Non Radio Shack Memory

+0 Drive Must Include DOS Manual, Cable and Carton.

MISC. HARDWARE

TRS232 SERIAL PRINTER INTERFACE w/Software
Operates off of the cassette port. **\$49.00**

ISO-2: Isolates your equipment from Power Line Surges and Spikes. Two banks of 3 outlets each. 15 amp/1875w total maximum load. **\$54.95**

AC LINE CORD SUPPRESSOR/FILTER: **\$24.00**
1 outlet, 8 amp/1000w

MUFFIN FANS: **\$15.00**
Keep your equipment cool.

AC POWER STRIPS: **\$18.95**
6 outlet, switch, breaker and pilot.

34-PIN CONNECTORS: **\$5.00**

34-PIN CONNECTORS: **\$8.00**
With 3 feet of Ribbon Cable.

AMPHENOL CONNECTOR: 36 Pin **Our Price \$10.00**
Centronics Printer Connector. List \$13.95.

RIBBON CABLE 34 CONDUCTOR: Call for Price
By the foot or by the yard.

CENTRONICS-PRINTER CABLES: Complete **\$35.00**

ANADEX PRINTER CABLES: Complete **\$35.00**

MEMORY: **\$99.00**
300 ns. With full instructions.

RIBBONS: for 779 Printers **\$6.50**

ANIDEX RIBBON: DP 8000 **\$8.50**

SOLA CONSTANT VOLTAGE TRANSFORMER: **\$350.00**
Keeps voltage 90-165 at a constant 115 volts.

SOUND AMPLIFIERS: **\$10.95**
For your sound programs connect the auxiliary plug from the recorder into the amplifier and hear your sound programs.

MUFFIN FANS: **\$10.00**
Boxer Fans from Imc. Magnetics Corp. Keeps the circuitry from over-heating. Works on the Model II.

DATA DUBBERS: **\$49.95**
Having problems loading cassette tapes? The data dubber will load the most difficult cassette tapes with no difficulties.

ELECTRONIC REPEAT: List \$19.95 **\$17.95**
Repeat the sequence of lights and sounds. Pay attention, electronic repeat goes faster and faster. See how long you can remember the sequence.

LIGHT PEN: **\$19.95**
For the TRS-80. Add \$5.00 for Sample Cassette.

H-14 ADAPTER BOARD: **\$99.95**
The H-14 Adapter Board is designed to adapt the H14 serial printer to the centronics parallel port. The unit utilizes full handshaking and can be attached directly to the TRS-80 interface. This eliminates the need of loading software to operate the printer. The board comes with installation instructions and a 90 day warranty.

LATE ARRIVALS

DUNGEON EXPLORER: LII, 16K \$8.50

A single player game of combat and adventure. Deep in the underground are incredible treasures guarded by vicious monsters. Can your character survive these dangers and become a legendary hero? No two trips are ever quite the same.

TRS-80 and OTHER MYSTERIES: Book \$22.50

by H. C. Pennington.

Learn how to make 'BASIC' programs 'unlistable'! Correct 'GAT' and 'HIT' sectors, recover 'DOS ERROR 22' a pot full of facts on 'Pencil', ASCII, Machine Language, BASIC and more than 20 secrets on data recovery in one chapter alone!

Now With Sound

ANIMATED HANGMAN: by Level IV \$9.50

New! Improved version - Now With Sound! Make a wrong guess and listen to him squawk!

BASIC COMPUTER PROGRAMS FOR THE HOME:

by Hayden

\$8.95

A comprehensive book of practical home application programs for the novice or experienced programmer. Each program is documented with a description of its functions and operation, a listing in BASIC, a symbol table, sample data, and one or more output samples. Some of the program applications included are: Kitchen Helpmates, Scheduling Programs for Home Use, Miscellaneous Programs for the Home, Conversion Programs, Recreational Programs and more.

Z80ZAP/CMD: Org-Tex

Disk \$29.95

A machine language program that allows you to modify discs. This program will allow you to examine disc sectors, modify discs, examine and modify memory, remove passwords, apply patches and much more.

SUPERMAP: LII, ROM Doc. by Fuller Software \$18.95

Takes you through ROM, showing you where the different subroutines are located. Assembly language programmers only need to CALL the routines already in ROM when writing their own programs.

MODEL II DEVELOPMENT SYSTEM: by Racet \$150.00

A development system written in machine language for the Model II. This utility package which contains the GSF sort package, is excellent for business applications. It is meant for the Programmer. You must own Apparat's Superzap and Radio Shack's Editor/Assembler to use this package.

★ Watch for more NEW and EXCITING software from these people.

NEWDOS+

If NEWDOS is the Cadillac of disk-operating systems, then NEWDOS+ has to be the Ferrari. NEWDOS+ retains all the features of the original NEWDOS, and adds the following utilities:

- Editor-assembler for disk
- Disassembler (Z80 machine code)
- LM Offset-allows transfer of any system tape to a disk file (automatically relocated)
- BASIC 1-Level one BASIC saved on disk
- LV1DSKSL - not a typo, this saves and loads BASIC 1 programs to disk
- DIRCHECK - tests and lists disk directory
- Superzap-display/print/modify any location in memory or on disk

Superzap alone is worth the price of this package. With it, we've quickly recovered lost programs, restored killed data files, and saved many hours of effort. The NEWDOS+ manual is another plus: clear and concise, it even includes a byte-by-byte explanation of the directory file...invaluable if you ever need to save a crashed disk!

The price for all this computer power? That's the best part!

NEWDOS+, Just \$99.00 (35 Track)*

*40-77 Track - add \$10.00 extra

Please specify when ordering.

NOTE: Use of this software may require documentation available only with the purchase of Radio Shack TRSDOS 2.1 and/or the Radio Shack Editor Assembler

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HELP US SERVE YOU BETTER

Please tell us about your system.

1. How much memory do you own () 16K () 32K () 48K
2. Type of storage () cassette () stringy floppy
() disk () 35 track () 40 track () 77 track () 96 track
- 2a. Type of drive () MPI () Radio Shack () Micropolis () Pertec
() Other _____
- 2b. Type of operating system () TRSDOS () NEWDOS () 3.0 () CP/M
() FORTH () Other _____
3. Primary use of equipment () hobby () business () personal () educational
() other _____
4. Type of software most frequently used () keyed-in (from books, magazines, etc.)
() purchased on cassette () purchased on disk () custom written by user
() custom written by software firm
5. Do you own any other computer system(s) (please list) _____

6. Do you purchase software for that system () Yes () No

SAVE \$

TRS-80* SPECIAL Dual Disk Drives!. Quad Disk Drives! IN ONE CASE!

One switch, one cord. • Over 400 K* in one (QUAD) Cabinet.

★Dual Drives \$698.00 Includes Cable & TRS D.O.S.

★Quad Drives \$1359.00 Includes Cable & TRS D.O.S.

You would pay \$1,000.00 or \$2,000.00 at Radio Shacks Prices

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DEALER INQUIRIES INVITED

*All drives will access 40 tracks when

Send for our New WINTER CATALOG.

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NEWDOS or NEWDOS+ (EXTRA)

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2	0.9	7	3.2	14	6.4	21	9.6	28	12.8	34	15.4
3	1.4	10	4.5	17	7.7	24	10.9	31	14.1	37	16.7
4	1.8	13	5.9	22	10.0	29	13.2	36	16.4	40	18.1
5	2.3	16	7.3	26	11.8	33	15.0	41	18.7	43	19.5
6	2.7	19	8.7	30	13.6	38	16.8	44	19.9	46	20.7
7	3.2	22	10.0	34	15.4	42	19.1	47	21.1	49	22.0
8	3.6	25	11.4	38	17.2	46	20.9	50	22.7	52	23.6
9	4.1	30	13.6	42	19.1	50	22.7	54	24.3	56	25.2
10	4.5	35	15.9	46	20.9	54	24.3	58	26.0	60	26.9
11	5.0	40	18.1	50	22.7	58	26.0	62	27.6	64	28.5
12	5.4	45	20.4	54	24.3	62	27.6	66	29.2	68	30.1
13	5.9	50	22.7	58	26.0	66	29.2	70	30.8	72	31.7
14	6.4	55	25.0	62	27.6	70	30.8	74	32.4	76	33.3
15	6.8	60	27.3	66	29.2	74	32.4	78	34.0	80	34.2
16	7.3	65	29.6	70	30.8	78	34.0	82	35.6	84	36.1
17	7.7	70	31.9	74	32.4	82	35.6	86	37.2	88	37.9
18	8.2	75	34.2	78	34.0	86	37.2	90	38.8	92	39.5
19	8.6	80	36.5	82	35.6	90	38.8	94	40.4	96	41.1
20	9.1	85	38.8	86	37.2	94	40.4	98	42.0	100	42.8
21	9.5	90	41.1	90	38.8	98	42.0	102	43.6	104	44.3
22	10.0	95	43.4	94	40.4	102	43.6	106	45.2	108	45.9
23	10.4	100	45.7	98	42.0	106	45.2	110	46.8	112	47.5
24	10.9	105	48.0	102	43.6	110	46.8	114	48.0	116	48.7
25	11.4	110	50.3	106	45.2	114	48.0	118	49.2	120	50.0
26	11.8	115	52.6	110	46.8	118	49.2	122	50.8	124	51.5
27	12.3	120	54.9	114	48.4	122	50.8	126	51.6	128	52.9
28	12.7	125	57.2	118	50.0	126	51.6	130	52.4	132	54.1
29	13.2	130	59.5	122	51.6	130	52.4	134	53.2	136	55.3
30	13.6	135	61.8	126	53.2	134	53.2	138	54.0	140	56.5
31	14.1	140	64.1	130	54.8	138	54.0	142	54.8	144	57.7
32	14.5	145	66.4	134	56.4	142	55.6	146	55.6	148	58.9
33	15.0	150	68.7	138	58.0	146	56.4	150	56.4	152	60.1
34	15.4	155	71.0	142	59.6	150	57.2	154	57.2	156	61.3
35	15.9	160	73.3	146	61.2	154	58.0	158	58.0	160	62.5
36	16.3	165	75.6	150	62.8	158	58.8	162	58.8	164	63.7
37	16.8	170	77.9	154	64.4	162	59.6	166	59.6	168	64.9
38	17.2	175	80.2	158	66.0	166	60.4	170	60.4	172	66.1
39	17.7	180	82.5	162	67.6	170	61.2	174	61.2	176	67.3
40	18.1	185	84.8	166	69.2	174	62.0	178	62.0	180	68.5
41	18.6	190	87.1	170	70.8	178	62.8	182	62.8	184	69.7
42	19.0	195	89.4	174	72.4	182	63.6	186	63.6	188	70.9
43	19.5	200	91.7	178	74.0	186	64.4	190	64.4	192	72.1
44	19.9	205	94.0	182	75.6	190	65.2	194	65.2	196	73.3
45	20.4	210	96.3	186	77.2	194	66.0	198	66.0	200	74.5
46	20.8	215	98.6	190	78.8	198	66.8	202	66.8	204	75.7
47	21.3	220	100.9	194	80.4	202	67.6	206	67.6	208	76.9
48	21.7	225	103.2	198	82.0	206	68.4	210	68.4	212	78.1
49	22.2	230	105.5	202	83.6	210	69.2	214	69.2	216	79.3
50	22.6	235	107.8	206	85.2	214	70.0	218	70.0	220	80.5
51	23.1	240	110.1	210	86.8	218	70.8	222	70.8	224	81.7
52	23.5	245	112.4	214	88.4	222	71.6	226	71.6	228	82.9
53	24.0	250	114.7	218	90.0	226	72.4	230	72.4	232	84.1
54	24.4	255	117.0	222	91.6	230	73.2	234	73.2	236	85.3
55	24.9	260	119.3	226	93.2	234	74.0	238	74.0	240	86.5
56	25.3	265	121.6	230	94.8	238	74.8	242	74.8	244	87.7
57	25.8	270	123.9	234	96.4	242	75.6	246	75.6	248	88.9
58	26.2	275	126.2	238	98.0	246	76.4	250	76.4	252	90.1
59	26.7	280	128.5	242	99.6	250	77.2	254	77.2	256	91.3
60	27.1	285	130.8	246	101.2	254	78.0	258	78.0	260	92.5
61	27.6	290	133.1	250	102.8	258	78.8	262	78.8	264	93.7
62	28.0	295	135.4	254	104.4	262	79.6	266	79.6	268	94.9
63	28.5	300	137.7	258	106.0	266	80.4	270	80.4	272	96.1
64	28.9	305	140.0	262	107.6	270	81.2	274	81.2	276	97.3
65	29.4	310	142.3	266	109.2	274	82.0	278	82.0	280	98.5
66	29.8	315	144.6	270	110.8	278	82.8	282	82.8	284	99.7
67	30.3	320	146.9	274	112.4	282	83.6	286	83.6	288	100.9
68	30.7	325	149.2	278	114.0	286	84.4	290	84.4	292	102.1
69	31.2	330	151.5	282	115.6	290	85.2	294	85.2	296	103.3
70	31.6	335	153.8	286	117.2	294	86.0	298	86.0	300	104.5
71	32.1	340	156.1	290	118.8	298	86.8	302	86.8	304	105.7
72	32.5	345	158.4	294	120.4	302	87.6	306	87.6	308	106.9
73	33.0	350	160.7	298	122.0	306	88.4	310	88.4	312	108.1
74	33.4	355	163.0	302	123.6	310	89.2	314	89.2	316	109.3
75	33.9	360	165.3	306	125.2	314	90.0	318	90.0	320	110.5
76	34.3	365	167.6	310	126.8	318	90.8	322	90.8	324	111.7
77	34.8	370	169.9	314	128.4	322	91.6	326	91.6	328	112.9
78	35.2	375	172.2	318	130.0	326	92.4	330	92.4	332	114.1
79	35.7	380	174.5	322	131.6	330	93.2	334	93.2	336	115.3
80	36.1	385	176.8	326	133.2	334	94.0	338	94.0	340	116.5
81	36.6	390	179.1	330	134.8	338	94.8	342	94.8	344	117.7
82	37.0	395	181.4	334	136.4	342	95.6	346	95.6	348	118.9
83	37.5	400	183.7	338	138.0	346	96.4	350	96.4	352	120.1
84	37.9	405	186.0	342	139.6	350	97.2	354	97.2	356	121.3
85	38.4	410	188.3	346	141.2	354	98.0	358	98.0	360	122.5
86	38.8	415	190.6	350	142.8	358	98.8	362	98.8	364	123.7
87	39.3	420	192.9	354	144.4	362	99.6	366	99.6	368	124.9
88	39.7	425	195.2	358	146.0	366	100.4	370	100.4	372	126.1
89	40.2	430	197.5	362	147.6	370	101.2	374	101.2	376	127.3
90	40.6	435	199.8	366	149.2	374	102.0	378	102.0	380	128.5
91	41.1	440	202.1	370	150.8	378	102.8	382	102.8	384	129.7
92	41.5	445	204.4	374	152.4	382	103.6	386	103.6	388	130.9
93	42.0	450	206.7	378	154.0	386	104.4	390	104.4	392	132.1
94	42.4	455	209.0	382	155.6	390	105.2	394	105.2	396	133.3
95	42.9	460	211.3	386	157.2	394	106.0	398	106.0	400	134.5
96	43.3	465	213.6	390	158.8	398	106.8	402	106.8	404	135.7
97	43.8	470	215.9	394	160.4	402	107.6	406	107.6	408	136.9
98	44.2	475	218.2	398	162.0	406	108.4	410	108.4	412	138.1
99	44.7	480	220.5	402	163.6	410	109.2	414	109.2	416	139.3
100	45.1	485	222.8	406	165.2	414	110.0	418	110.0	420	140.5
101	45.6	490	225.1	410	166.8	418	110.8	422	110.8	424	141.7
102	46.0	495	227.4	414	168.4	422	111.6	426	111.6	428	142.9
103	46.5	500	229.7	418	170.0	426	112.4	430	112.4	432	144.1
104	46.9	505	232.0	422	171.6	430	113.2	434	113.2	436	145.3
105	47.4	510	234.3	426	173.2	434	114.0	438	114.0	440	146.5
106	47.8	515	236.6	430	174.8	438	114.8	442	114.8	444	147.7
107	48.3	520	238.9	434	176.4	442	115.6	446	115.6	448	148.9
108	48.7	525	241.2	438	178.0	446	116.4	450	116.4	452	150.1
109	49.2	530	243.5	442	179.6	450	117.2	454	117.2	456	151.3
110	49.6	535	245.8	446	181.2	454	118.0	458	118.0	460	152.5
111	50.1	540	248.1	450	182.8	458	118.8	462	118.8	464	153.7
112	50.5	545	250.4	454	184.4	462	119.6	466	119.6	468	154.9
113	51.0	550	252.7	458	186.0	466	120.4	470	120.4	472	156.1
114	51.4	555	255.0	462	187.6	470	121.2				

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