

```

5B8- E0 FE FD FB F7 F7 F7 FF
5C0- F1 EE EE F1 EE EE F1 FF
5C8- F1 EE EE F0 FE FD E3 FF
5D0- FF FF FB FF FB FF FF FF
5D8- FF FF FB FF FB FB F7 FF
5E0- FD FB F7 EF F7 FB FD FF
5E8- FF FF E0 FF E0 FF FF FF
5F0- F7 FB FD FE FD FB F7 FF
5F8- F1 EE FD FB FB FF FB FF
600- 08 04 02 00 00 00 00 00
608- 00 00 0E 01 0F 11 0F 00
610- 10 10 1E 11 11 11 1E 00
618- 00 00 0F 10 10 10 0F 00
620- 01 01 0F 11 11 11 0F 00
628- 00 00 0E 11 1F 10 0F 00
630- 06 09 08 1E 08 08 08 00
638- 00 00 0E 11 11 0F 01 0E
640- 10 10 1E 11 11 11 11 00
648- 04 00 0C 04 04 04 0E 00
650- 02 00 06 02 02 02 12 0C
658- 10 10 11 12 1C 12 11 00
660- 0C 04 04 04 04 04 0E 00
668- 00 00 1B 15 15 15 11 00
670- 00 00 1E 11 11 11 11 00
678- 00 00 0E 11 11 11 0E 00
680- 00 00 1E 11 11 1E 10 10
688- 00 00 0F 11 11 0F 01 01
690- 00 00 17 18 10 10 10 00
698- 00 00 0F 10 0E 01 1E 00

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6A0- 08 08 1E 08 08 09 06 00
6A8- 00 00 11 11 11 13 0D 00
6B0- 00 00 11 11 11 0A 04 00
6B8- 00 00 11 11 15 15 1B 00
6C0- 00 00 11 0A 04 0A 11 00
6C8- 00 00 11 11 11 0F 01 0E
6D0- 00 00 1F 02 04 08 1F 00
6D8- 07 0C 0C 18 0C 0C 07 00
6E0- 04 04 04 04 04 04 04 04
6E8- 1C 06 06 03 06 06 1C 00
6F0- 0D 16 00 00 00 00 00 00
6F8- 7F 7F 7F 7F 7F 7F 7F 7F
700- 00 00 00 00 00 00 00 00
708- 04 04 04 04 04 00 04 00
710- 0A 0A 0A 00 00 00 00 00
718- 0A 0A 1F 0A 1F 0A 0A 00
720- 04 0F 14 0E 05 1E 04 00
728- 18 19 02 04 08 13 03 00
730- 08 14 14 08 15 12 0D 00
738- 04 04 04 00 00 00 00 00
740- 04 08 10 10 10 08 04 00
748- 04 02 01 01 01 02 04 00
750- 04 15 0E 04 0E 15 04 00
758- 00 04 04 1F 04 04 00 00
760- 00 00 00 00 04 04 08 00
768- 00 00 00 1F 00 00 00 00
770- 00 00 00 00 00 00 04 00
778- 00 01 02 04 08 10 00 00
780- 0E 11 13 15 19 11 0E 00

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788- 04 0C 04 04 04 04 0E 00
790- 0E 11 01 06 08 10 1F 00
798- 1F 01 02 06 01 11 0E 00
7A0- 02 06 0A 12 1F 02 02 00
7A8- 1F 10 1E 01 01 11 0E 00
7B0- 07 08 10 1E 11 11 0E 00
7B8- 1F 01 02 04 08 08 08 00
7C0- 0E 11 11 0E 11 11 0E 00
7C8- 0E 11 11 0F 01 02 1C 00
7D0- 00 00 04 00 04 00 00 00
7D8- 00 00 04 00 04 04 08 0C
7E0- 02 04 08 10 08 04 02 00
7E8- 00 00 1F 00 1F 00 00 00
7F0- 08 04 02 01 02 04 08 00
7F8- 0E 11 02 04 04 00 04 00

```

After construction is complete, carefully check all connections. Then install the board, making doubly sure the proper locations are selected.

Be sure to add the previously mentioned POKES to the Apple-writer program. Then resave for future use.

You now have a very sophisticated text editor for your Apple. You will now enjoy typing letters, since what you see on your screen is what you get on the printer.

good luck ...

**Stanton has two Apple computers** for use in its Title III program. Some fourth, fifth and sixth-grade students at Stanton recently started a computer programming class on Friday afternoons.

"Computers make learning more fun and more stimulating — more like a game," said Conner. "The children really respond to the instant feedback. Spelling becomes much more exciting when you're learning how to spell by playing 'Hangman' with the computer."

The Lawrence Hall of Science in Berkeley and the Marin Computer Center in San Rafael provide access to large and sophisticated computer facilities. About 85 percent of those who use the computers are teenagers.

Members of Clifton's staff will be trained to operate the computer. It is hoped that parents will volunteer their time to be trained and to help run the computer center.

# CRAE

A new Co-Resident Applesoft Editor for applesoft programmers. Now perform global changes/finds to anything in your applesoft programs. Quote ranges of lines from one part of your program to another. A fully optimized stop-list command that lists your program to the screen with no spaces added and forty columns wide. Append other applesoft programs from disk. Get a formatted memory dump to help debugging. Renumber applesoft programs 5 times faster than most available renumber routines. Automatic line numbering. All utilities invoked with one key commands.

C.R.A.E. changes your applesoft program right in memory and only needs to be loaded once.

Hardware requirements for all utilities are 48K Apple II or Apple II Plus, applesoft ROM and Disk.

C.R.A.E. 1.....Includes global find/change, quote, dump and List renumber, autoline, and append. Disk - \$14.95

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