

## list structure insertion macro

on file /lib/lisp/mi.tec is a teco macro which automatically formats list structure as you type it. get the macro into a q-register and execute it when the buffer pointer is at the beginning of a line. any characters typed will be inserted into the buffer. when a line feed is typed, sufficient tabs and blanks are inserted to indent the new line just the way the lisp pretty-printer would indent it. the tabs and blanks are echoed so that what appears on the screen corresponds to what is in the file. super-brackets are handled appropriately. if too many right parentheses are typed, a warning message is printed and the extras are ignored for formatting purposes. if you make a typing error, a control q will delete the current line. the deleted text will disappear from the screen and the cursor will be repositioned. successive control-q's continue to delete lines and move the cursor up the screen. exit the macro with control-c.

the macro uses q-registers 1, 2, 3, a, c, and s.

One can bring the macro into teco by the teco command:  
\*em/lib/lisp/mi.tec*i*\$\$  
which will bring it into q-register *i*, where it can be executed with \*mi\$\$ (the \* is teco's prompt and the dollar signs are altmodes).

### glytchs:

the ^u feature only works on terminals for which 154 octal moves the cursor up (most of the data-points are ok). on other terminals you can still delete lines with ^u but the deleted text will remain on the screen.

when the message "too many right parentheses" appears, it will take two control u's to get rid of the offending line.

if more than one control-u is used, they don't disappear from the screen.

you can control-u right to the beginning of the text which you have inserted. if you hit ^u again, and there was stuff above what you had inserted, there are no gaurantees that you will come out alive.

### bug:

if a left superbracket governs the line above a deleted line, the cursor isn't repositioned properly. this can be remedied by another ^u.

This macro was written by greg nelson for use in applied math 110 and other courses using lisp.

