PROBLEMS FROM THE TEKARCANA CLASS:
ANSWER TO THE CHALLENGE PROBLEM

The problem is, produce this:

- If I have all the eloquence of men or of angels, but speak without love, I am simply a gong booming or a cymbal clashing.
- If I have the gift of prophecy, understanding all the mysteries there are, and knowing everything, and if I have faith in all its fulness, to move mountains, but without love, then I am nothing at all.
- If I give away all that I possess, piece by piece, and if I even let them take my body to burn it, but without love, it will do me no good whatever.
- Love is always patient and kind; it is never jealous; love is never boastful or conceited; it is never rude or selfish; it does not take offence, and is not resentful.
- Love takes no pleasure in other people's sins but delights in the truth;
- it is always ready to excuse, to trust, to hope, and to endure whatever comes.
- Love does not come to an end. But if there are gifts of prophecy, the time will come when they must fail; or the gift of languages, it will not continue for ever;

and knowledge—for this, too, the time will come when it must fail. *For our knowledge is imperfect and our prophesying is imperfect; *but once perfection comes, all imperfect things will disappear. *When I was a child, I used to talk like a child, and think like a child, and argue like a child, but now I am a man, all childish ways are put behind me. *Now we are seeing a dim reflection in a mirror; but then we shall be seeing face to face. The knowledge that I have now is imperfect; but then I shall know as fully as I am known.

*In short, there are three things that last: faith, hope and love; and the greatest of these is love.

(From a data file, love.tex, that looks like this:

* If I have all the eloquence of men or of angels, but speak without love, I am simply a gong booming or a cymbal clashing.
* If I have the gift of prophecy, understanding all the mysteries imperfect; but then I shall know as fully as I am known.
* In short, there are three things that last: faith, hope and love; and the greatest of these is love.
Here is Don Knuth's solution.

\input basic
\def\pagesize{1.8in}
\vsize 8.5pt
\topbaseline 8.5pt
\maxdepth 3.5pt
\output{\save0\vbox{\unbox0\hbox{\lower3.5pt\hbox{}}\page}}
\ifdimen 1ht0<\pagesize\}
\else{\vbox to \pagesize{\box0\vss}\advcount0\}
\def\flushpage{\par\eject\ifdimen 1ht0=0pt\}
\else{\vsize\pagesize\vbox to \pagesize{\eject\vsize 8.5pt} \}
\topsep{\vskip -6pt minus 10pt}
\topskip 0pt minus -5pt
\def\margino{\topinsert{\vskip0pt minus 5pt
\rjustline{\vbox to 8pt{\space{\hskip 5pt\d\count0\advcount0}}}}}
\chcode`i00=13 \def@{\ifvmode{\unskip}
\else{\unskip\hskip 1.5em plus .1em minus .1em}
\hbox to 0pt{\hss$\bullet$\space}\margin\}
\setcount1 1
\input love
\end