To acquaint yourself with Logo, write a Logo program numspell that takes an integer in the range [0, 999] and returns a sentence that spells it out:

```
? print numspell 999
nine hundred ninety nine
? print numspell 1
one
? print numspell 11
eleven
? print numspell 23
twenty three
? print numspell 0
zero
? print numspell 514
five hundred fourteen
? print numspell 40
forty
? print numspell 234
two hundred thirty four
? print numspell 500
five hundred
```

Here are some Logo primitives that may be of help: first, equalp, lessp, butfirst, remainder, sentence. You may also find the following functions useful:

```
to dec :n
output difference :n 1
end
to list.ref :n :stuff
if equalp :n 0 [output first :stuff]
output list.ref dec :n butfirst :stuff
end
to digit.spell :n
output list.ref :n [zero one two three four five six seven eight nine]
end
```

You should write additional helper functions—don't do it all in one hideous program. Please put your code into a file called numspell.lg and submit it along with your project. As in Scheme, a semicolon denotes the start of a one-line comment in Logo.

Do not type your procedure definitions at the Logo prompt. Compose your source in Emacs, then use Logo's load command to input the file:

? load "numspell.lg

Oh yeah, to run Berkeley Logo, just type logo at the shell prompt. To quit Logo, say bye.