NAME

    factor — ise integers

SYNOPSIS

    factor *number*...
    factor < numbers

DESCRIPTION

    Writes factors of all *number*s (if none specified, read from standard input, delimited by whitespace) to the standard output stream in ascending order, one per line, in the form

        number: prime prime prime

    No primes are written for *number*s smaller than **2**.

EXIT STATUS

    1 if at least one *number* wasn't actually, or was out of range.

EXAMPLES

```
$ factor 1410 1981
1410: 2 3 5 47
1981: 7 283

$ tr -cd '0-9 \t\n' < /dev/urandom | dd bs=60 count=1 | factor
11: 11
41615: 5 7 29 41
0:
81: 3 3 3 3
1:
552: 2 2 2 3 23
7: 7
4900: 2 2 5 5 7 7
195283: 11 41 433
440343080901: 3 3 29 53 31832797
7472183475: 3 5 5 99629113
```

HISTORY

    factor first appeared in Version 7 AT&T UNIX as factor(1):

        factor [number]

    A direct C port appeared in 4.1 BSD as factor(6). It had been rewritten in 4.3 BSD−Reno to parse one number per line, as opposed to just separating them by whitespace, and handle multiple arguments.

BUGS

    This implementation uses a simplistic wheel factorisation algorithm, which isn't going to win any awards soon.