

SELF DESCRIBING NUMBERS

CHALLENGE DESCRIPTION:

A number is a self-describing number when (assuming digit positions are labeled 0 to N-1), the digit in each position is equal to the number of times that that digit appears in the number.

INPUT SAMPLE:

The first argument is the pathname to a file which contains test data, one test case per line. Each line contains a positive integer. E.g.

```
2020
22
1210
```

OUTPUT SAMPLE:

If the number is a self-describing number, print out 1. If not, print out 0. E.g.

```
1
0
1
```

For the curious, here's how 2020 is a self-describing number: Position '0' has value 2 and there is two 0 in the number. Position '1' has value 0 because there are not 1's in the number. Position '2' has value 2 and there is two 2. And the position '3' has value 0 and there are zero 3's.