2021 ICPC ASIA DHAKA REGIONAL ONLINE PRELIMINARY CONTEST - REHEARSAL

Finished

THE CONTEST HAS ENDED.

A. Multiple of 17

Score: 1

CPU: 1s
Memory: 2048MB

Theorem: If you drop the last digit d of an integer n (n 10), subtract 5d from the remaining integer, then the difference is a multiple of 17 if and only if n is a multiple of 17.

For example, 34 is a multiple of 17, because 3-20=-17 is a multiple of 17; 201 is not a multiple of 17, because 20-5=15 is not a multiple of 17.

Given a positive integer n, your task is to determine whether it is a multiple of 17.

Input

There will be at most 10 test cases, each containing a single line with an integer n (1<= n <= 10^12). The input terminates with n = 0, which should not be processed.

Output

For each case, print 1 if the corresponding integer is a multiple of 17, print 0 otherwise.

Sample

Input	Output

Input	Output
34	1
201	0
2098765413	1
17171717171718	0
0	