# Hidden Digits

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|---|---|
| Input file: | `standard input` |
| Output file: | `standard output` |
| Time limit: | 1 second |
| Memory limit: | 256 megabytes |

There's a hidden string of digits (from 0 to 9) of length $N$ ($1 \leq N \leq 18$). You want to find out whether there's a substring of any size inside this hidden number that is divisible by 3.

You are allowed to ask **up to 2 queries** of the following format: `"? i"`, which tells you the digit at the requested index $i$ ($1 \leq i \leq N$).

## Input

The first line contains the integer $N$, the length of the hidden string.

## Interaction Protocol

You're allowed a maximum of 2 queries of the following format: `? i`

After making a query, you get a single line containing a digit from 0 to 9 indicating the digit at the index $i$ in the hidden string.

To make an answer, output a single line containing `! 1` if there's a substring that's divisible by 3. Otherwise, `! 0`.

## Example

| standard input | standard output |
|---|---|
| 2<br><br>6<br><br>8 | <br>? 1<br><br>? 2<br><br>! 1 |