1289 - Removing Powers

Description

Robert is playing a very interesting puzzle. First he puts all the numbers less than n+1 in a row (n <= 1000) then delete all the numbers that are in a position that is a power of 2, again and again. For instance n = 10: 1 2 3 4 5 6 7 8 9 10 removes 1 2 4 8 3 5 6 7 9 10 removes 3 5 7 6 9 10 removes 6 9 10 removes 10 Now your task is given a number n, determine the last number that was deleted.

Input specification

Several test cases with the value of n. You must read until you reach the end of file.

Output specification

One line for each test case, with the last number that was deleted.

Sample input

```
10
2
```

Sample output

```
10
2
```

Hint(s)

Source	Luis Angel Giro Valdés
Added by	**ejaltuna**
Addition date	2011-10-13 17:59:46.0
Time limit (ms)	1000
Test limit (ms)	1000

Memory limit (kb)	65536
Output limit (mb)	64
Size limit (bytes)	100000
Enabled languages	C C# C++ Java Pascal Perl PHP Python Ruby Text