Greatest Divisor

Input file:	standard input
Output file:	standard output
Time limit:	1.5 seconds
Memory limit:	256 megabytes

You are given a positive integer $n \geq 2$, you have to find its greatest divisor that is **different than** n.

Input

A single line containing a positive integer $2 \leq n \leq 10^5$.

Output

The greatest divisor d of n, where $d \neq n$.

Example

standard input	standard output
20	10

Note

Divisors of 20 are $1, 2, 4, 5, 10,$ *and* 20 the greatest of them that is different than 20 is 10.