



Phi function

- Time limit: 1 second
- Memory limit: 256 MB

The purpose of this question is to implement Euler's phi (φ) function. The output of this function for natural number n is the number of natural numbers smaller than n that are prime to n (their greatest common divisor is 1). To solve this question, define two functions in the form below.

```
int isPrime(int x)
```

```
int phi(int x)
```

The output of the first function is 1 if x is prime and 0 otherwise. The output of the second function - which you need to write with the help of the first function - is the request of the problem.

Input

The input contains only one line where the natural number n comes.

$$1 \leq n \leq 10^5$$



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Output

In the only output line, $\phi(n)$ is printed.

Example

Sample input 1

12

Sample output 1

4

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