





▼ Unpleasant functions

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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)

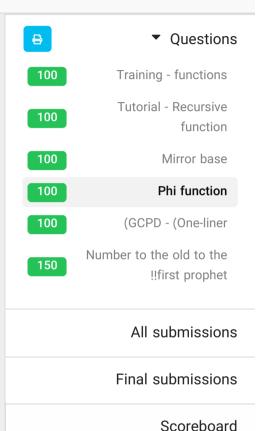
int phi(int x)

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 Come.

$$1 \le n \le 1 \ 0^5$$



Output In the only output line, $\varphi(n)$ is printed. Example Sample input 1 12 Sample output 1 POST AN ANSWER TO THIS QUESTION .The training period is over

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