## Count Primes

Given an integer number $n$. Get all divisor of $n$ then count number of prime factor in each divisor.
Divisor of n is all numbers that divide n .
Prime factor of $N$ is number of primes in N. For example, 12 is $2^{\wedge} 2^{*} 3^{\wedge} 1$ so 12 has 3 prime numbers 2, 2, 3.

Note: 1 is not prime.

## Input

input contain one integer N where $1<=\mathrm{N}<=10000$

## Output

Print number of prime factors for all divisor of N .
Print endl after the test case

## Example

Input:
6
Output:
4

## Explanation

Divisors of 6 are $1,2,3,6$.

- 1 contains 0 prime.
- 2 contains 1 prime.
- 3 contains 1 prime.
- 6 contains 2 prime.

