## Math Homework

Time Limit: 1.0s Memory Limit: 256M

Sinanto and BiciBico are struggling to do their math homework. Guys are given a positive integer number $\mathbf{N}$ and they need to count the number of positive integers $\mathbf{X}$ such that:

- $X<\mathbf{N}$,
- $X$ is not a divisor of $\mathbf{N}$,
- $X$ is a divisor of $\mathbf{N}^{2}$.

Could you please help BiciBico and Sinanto to finish their assignment?

## Input

Integer number $\mathbf{N}$

## Output

The number of positive integers $\mathbf{X}$

## Constraints

- $1 \leq \mathbf{N} \leq 10^{12}$


## Example

Input:

6

Output:

1

## Notes

In the example, the only number $\mathbf{X}$ is 4 which is a divisor of 36 but is not a divisor of 6 .

