Remaining Factors

Eric is a mischievous lad. He loves troubling his teachers. One day his maths teacher, Mr. Kakutani decided to punish Eric by giving him a problem. The problem read as follows :

"*Given a positive integer N, find the number of positive integer divisors of N^2 that are less than N, but do not divide N.*"

Can you solve the problem for Eric?

Input Format

The first and only line of input contains a number N.

Constraints

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

Output Format

Print the number of positive integer divisors of N^2 that are less than N, but do not divide N.

Sample Input

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30
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Sample Output

```
6
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Explanation

The factors of 30^2 (900), that are less than 30 are - 1,2,3,4,5,6,9,10,12,15,18,20,25. Out of these, 4,9,12,18,20,25 do not divide 30.