Satisfactory Pairs

Given a positive integer, n, find and print the number of pairs of positive integers (a, b), where $a < b$, that exist such that the equation $x \cdot a + y \cdot b = n$ (where x and y are positive integers) has at least one solution.

Input Format

A single positive integer denoting n.

Constraints

- $4 \leq n \leq 3 \times 10^5$

Output Format

Print a single integer denoting the number of such pairs.

Sample Input 0

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4
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Sample Output 0

```
2
```

Explanation 0

There are two such (a, b) pairs: $(1, 2)$ and $(1, 3)$.