

# 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

4

## Sample Output 0

2

## Explanation 0

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