## Problem A

For given $n\left(n \leq 10^{7}\right)$, determine the number of rational numbers $q$ such that $0<q \leq 1$ and $q$ can be expressed as a fraction $a / b$ such that $b \leq n$.

## Input and output

The input consists of a single integer $n$, the output of a single integer, the number of rational numbers $q$ with the property described above.

## Example

Input:
100

Output:
3044

