# Floor Arithmetics

Given **N**, calculate

$$\sum_{i=1}^{N} \left\lfloor \frac{N}{i} \right\rfloor$$

i.e. the sum of all **N** divided by **i, rounded down**, for all **i** from **1** to **N**.

## Input

A positive integer **N (N ≤ 10^12).**

## Output

The sum of all **N** divided by **i, rounded down**, for all **i** from **1** to **N**.

## Example

**Input:**
4

**Output:**
8

**Input:**
10

**Output:**
27

**Input:**
32

**Output:**
119