## Ann and Jimmy

Jimmy puts Ann's birthday present in a cuboid box. The dimensions of its edges are positive integers and the sum of its length, width, and height is $N$.

What is the maximum volume Ann's present box can have?


$$
\text { length }+ \text { width }+ \text { height }=N
$$

## Input Format

A single integer, $N$ (the sum of the box's length, width, and height).

## Constraint

$3 \leq N \leq 10^{3}$

## Output Format

Print the maximum possible volume of the box.

## Sample Input 0

4

## Sample Output 0

2

## Sample Input 1

8

## Sample Output 1

## Explanation

## Sample 0

Here, our only possible dimensions are some combination of 1 , 1 , and 2 . Volume $=1 \times 1 \times 2=2$, so we print 2.

## Sample 1

Here are all possible edge dimensions:
$[1,1,6]$, Volume $=6$.
$[1,2,5]$, Volume $=10$.
$[1,3,4]$, Volume $=12$.
$[2,2,4]$, Volume $=16$.
$[2,3,3]$, Volume $=18$.
We print the maximum volume, which is 18 .

