DMOPC '22 Contest 5 P1 - Triple Triplets

Time limit: 1.0s **Memory limit:** 256M

Russell Westbrook has farmed enough triple doubles in his career and is now pursuing a passion for triple triplets. Let the Triple value of an array A be the number of distinct triplets $1 \leq i < j < k \leq |A|$ such that $A_i + A_j = A_k$. For example, the Triple value of the array $[1, 2, 10, 3]$ is 1. The only triplet that satisfies this condition is $(1, 2, 4)$, as $A_1 + A_2 = A_4$. Please tell Russell the maximum Triple value of all possible arrays with positive integer values that add up to N.

Constraints

$1 \leq N \leq 10^6$

Subtask 1 [20%]

$1 \leq N \leq 15$

Subtask 2 [80%]

No additional constraints.

Input Specification

The first and only line contains the integer N.

Output Specification

Output the maximum Triple value of all possible arrays with positive integer values that add up to N.

Sample Input

```
5
```

Sample Output

```
3
```