

AB means "water" in Persian.

You are asked to construct a string of length N using only the letters A and B, so that it does not contain the word "AB".

How many different strings can be constructed for a given number of N?

Input Format

N in a single line, length of the string

Output Format

Print the number of strings that satisfy the conditions in one line.

Constraints

 $1 \leq N \leq 10^9$

Sample Input 1 🔲

3

Sample Output 1 🔲

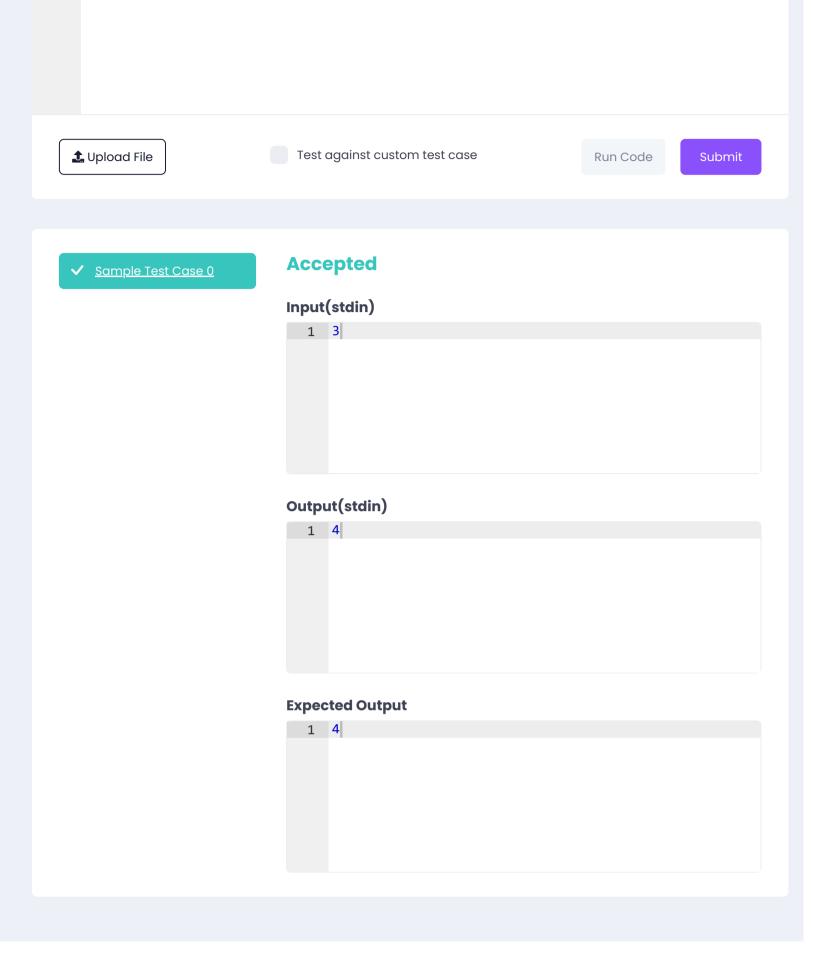
4

Explanation 1

- BAA
- BBA
- AAA
- BBB

There are 4 strings satisfying the conditions.

C++ (GCC 9.2.0) Bright Memory Limit (kB): 256000 Time Limit (s):1 1 #include <bits/stdc++.h> 3 using namespace std; 4 5 * int main() { int n; 6 cin >> n; 7 8 cout << n + 1; return 0; 9 10 } 11



algoleague @ All Rights Reserved 2023 - v1.3.3

<u>About Help Legal Contact Us</u>