

# Find My Namespace

 locked

Problem

Submissions

Leaderboard

Discussions

Language “MyBinary” has a special criterion in selecting valid variable names.

1. It accepts only “0” and “1” characters while writing variable names.
2. There should be same number of “0” and “1” characters in a name
3. The prefix of the name has the property where  $\text{NumberOf}('1') \geq \text{NumberOf}('0')$

Amal is using this language for his programming project. For a given “n” number of “0” characters, he needs to find how many valid variable names can be generated.

Eg:

Number of “0” characters (n) = 3

Valid name patterns =>

111000

101100

101010

110010

110100

Number of valid patterns => 5

### Input Format

3

### Constraints

1. It accepts only "0" and "1" characters while writing variable names.
2. There should be same number of "0" and "1" characters in a name
3. The prefix of the name has the property where  $\text{NumberOf('1')} \geq \text{NumberOf('0')}$

### Output Format

5

### Sample Input 0

3

### Sample Output 0

5



Submissions: [22](#)

Max Score: 80

Difficulty: Medium

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C++



```
1 #include <cmath>
2 #include <cstdio>
3 #include <vector>
4 #include <iostream>
5 #include <algorithm>
6 using namespace std;
7
8
9 int main() {
10     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
11     return 0;
12 }
13
```

Line: 1 Col: 1

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Run Code

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