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Toy Blocks

locked

by [DOSHI](#)[Problem](#)[Submissions](#)[Leaderboard](#)[Discussions](#)[Editorial](#)

Michael has a toy block set. The toy set consists of N identical blocks.

Michael wants to make *buildings* from these blocks.

A *building* is a structure formed by a pile of at least two blocks.

Your task is to find total ways, such that all blocks are utilized in making *buildings*.

Example

N : 5 Blocks

Ways to make a *building* : [5], [2, 3]

Total ways : 2

N : 6 Blocks

Ways to make a *building* : [6], [4, 2], [3, 3], [2,2,2]

Total ways : 4

Input Format

Single line containing, integer N.

Constraints

$2 \leq N \leq 500$

Output Format

[in](#) [twitter](#) [facebook](#)**Submissions:** 83**Max Score:** 40**Difficulty:** Easy**Rate This Challenge:**[More](#)

Output total ways, such that all blocks are used in making *buildings*.
As this number can be very large, print **answer % (10⁹+7)**

Sample Input

4

Sample Output

2

Explanation

[4] and [2,2] are the only possible ways of making *buildings*. Therefore, the output is 2 ways.

Current Buffer (saved locally, editable)  

Java 7   

```
1 import java.io.*;
2 import java.util.*;
3 import java.text.*;
4 import java.math.*;
5 import java.util.regex.*;
6
7 public class Solution {
8
9     public static void main(String[] args) {
10         /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
11     }
12 }
```

Line: 1 Col: 1

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