https://course.acciojob.com/idle?question=9b236421-7977-48a9-86b 7-8890b98a071a

- MEDIUM
- Max Score: 40 Points

Number of ways to form Natural Number

Find number of ways an integer N can be represented as a sum of unique natural numbers.

Input Format

First line contains a single integer N.

Output Format

Print a single integer containing number of ways.

Example 1

Input

6

Output

4

Explaination

6 can be represented as (1, 2, 3), (1, 5), (2, 4), (6)

Example 2

Input

```
7
```

Output

5

Explaination

7 can be represented as (1, 2, 4), (1, 6), (2, 5), (3, 4), (7)

Constraints

```
0 <= N <= 120
```

Topic Tags

Recursion

My code

```
// n java
import java.util.*;
import java.lang.*;
import java.io.*;

public class Main
{
   static int way(int n,int i)
   {
    if(i>=n)return 0;
    int sum=0;
   while(i<n)</pre>
```

```
{
    int a=way( n-i-1,++i);
    sum=sum+a;
}
return 1+sum;
}
    public static void main (String[] args) throws
java.lang.Exception
    {
        //your code here
        Scanner s=new Scanner(System.in);
        int n=s.nextInt();
        System.out.print(way(n,0));
        }
}
```