https://course.acciojob.com/idle?question=c73a5b20-1518-4498-8222-bce4f230b463

- EASY
- Max Score: 30 Points

Triangular Number

Given a number `n`. Check whether it is a triangular number or not.

Note: A number is termed as a triangular number if we can represent it in the form of a triangular grid of points such that the points form an equilateral triangle and each row contains as many points as the row number, i.e., the first row has one point, the second row has two points, the third row has three points and so on.

The starting triangular numbers are 1, 3 (1+2), 6 (1+2+3), 10 (1+2+3+4).

Input Format

The input contains an integer `n`, representing the number to be tested.

Output Format

Output `1` if the integer is a triangular number, else output `0`.

Example 1

Input:

```
55
```

Output:

```
1
```

Explanation:

55 is a triangular number. It can be represented in 10 rows.

Example 2

Input:

```
56
```

Output:

```
0
```

Explanation:

56 is not a triangular number.

Constraints:

1<=n<=10^6

Topic Tags

- **Binary Search**

My code

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

public class Main
{
```

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