https://course.acciojob.com/idle?question=58b2c51a-665d-4057-832e-b522661b277a

- EASY
- Max Score: 30 Points

Square Root Of Integer

Given an integer A.

Compute and print the square root of A.

If A is not a perfect square, return floor(sqrt(A)).

DO NOT USE SQRT FUNCTION FROM STANDARD LIBRARY.

NOTE: Do not use sort function from standard library. Users are expected to solve this in O(log(A)) time.

Input Format

The first line given is the integer A.

Output Format

Print floor(sqrt(A))

Example 1

Input

```
11
```

Output

```
3
```

Explanation

When A = 11 , square root of A = 3.316. It is not a perfect square so we return the floor which is 3.

Example 2

Input

```
9
```

Output

```
3
```

Explanation

When A = 9 which is a perfect square of 3, so we return 3.

Constraints

1 ≤ x ≤ 10^7

Topic Tags

- **Binary Search**

My code

```
// in 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 i=0;
      for(i=0;i*i<=n;i++);
      System.out.print(i-1);
        }
}
```