

LeetCode

Explore

Problems

Mock

Contest

Articles

Discuss

Store

Day 12

Premium

Jewels and Stones

Ransom Note

Number Complement

First Unique Character in a ...

Majority Element

Cousins in Binary Tree

Week 2: May 8th–May 14th

Problems appear at midnight, P...

Check If It Is a Straight Line

Valid Perfect Square

Find the Town Judge

Flood Fill

Single Element in a Sorted ...

Valid Perfect Square

Solution

Given a positive integer *num*, write a function which returns True if *num* is a perfect square else False.

**Note:** Do not use any built-in library function such as `sqrt`.

**Example 1:**

Input: 16

Output: true

**Example 2:**

Input: 14

Output: false

Java

```
1 class Solution {
2     public boolean isPerfectSquare(int num) {
3         int left=1;
4         int right=num;
5         while(left<=right){
6             int mid=left+(right-left)/2;
7             long square=(long)mid*mid;
8             if(square==num){
9                 return true;
10            }
11            if(square<num) left=mid+1;
12            else right=mid-1;
13        }
14        return false;
15    }
16 }
```

Custom Testcase (Contribute)

Run Code

Submit