Finding the Square Root of an Integer

Solution steps

- We will take two variable start = 1 and end = N.
- We will find the middle element (mid) and apply binary search.
- We just need another variable *square-root* to take care of the case when the given integer is not a perfect square. Then, we will output the floor of the square root.
- In case of perfect square, middle element(*mid*) will be our answer and in the other case our answer is *square-root*.

Time Complexity:

O(Logn) n is the number we want the square root.

Space Complexity:

We don't use extra data-structure so it is O(1).