

Longest Consecutive Subsequence

Difficulty: Medium

Accuracy: 33.0%

Submissions: 342K+

Points: 4

Given an array `arr[]` of non-negative integers. Find the **length** of the longest subsequence such that elements in the subsequence are consecutive integers, the **consecutive numbers** can be in **any order**.

Examples:

Input: `arr[] = [2, 6, 1, 9, 4, 5, 3]`**Output:** 6**Explanation:** The consecutive numbers here are 1, 2, 3, 4, 5, 6. These 6 numbers form the longest consecutive subsequence.**Input:** `arr[] = [1, 9, 3, 10, 4, 20, 2]`**Output:** 4**Explanation:** 1, 2, 3, 4 is the longest consecutive subsequence.**Input:** `arr[] = [15, 13, 12, 14, 11, 10, 9]`**Output:** 7**Explanation:** The longest consecutive subsequence is 9, 10, 11, 12, 13,

```
1 // } Driver Code Ends
26 class Solution {
27     public int longestConsecutive(int[] arr) {
28         if (arr == null || arr.length == 0) {
29             return 0;
30         }
31         Set<Integer> set = new HashSet<>();
32         for (int num : arr) {
33             set.add(num);
34         }
35         int longestStreak = 0;
36         for (int num : arr) {
37             if (!set.contains(num - 1)) {
38                 int currentNum = num;
39                 int currentStreak = 1;
40                 while (set.contains(currentNum + 1)) {
41                     currentNum += 1;
42                     currentStreak += 1;
43                 }
44                 longestStreak = Math.max(longestStreak, currentStreak);
45             }
46         }
47         return longestStreak;
48     }
49 }
```

[Custom Input](#)

Compile & Run

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