Problem List

Dynamic Layout Premium 0

Description Editorial Solutions (180) Submissions

2860. Happy Students

Hint

Medium 103 212

Companies

You are given a **0-indexed** integer array `nums` of length `n` where `n` is the total number of students in the class. The class teacher tries to select a group of students so that all the students remain happy.

The i^{th} student will become happy if one of these two conditions is met:

- The student is selected and the total number of selected students is **strictly greater than** `nums[i]`.
- The student is not selected and the total number of selected students is **strictly less than** `nums[i]`.

Return *the number of ways to select a group of students so that everyone remains happy.*

Example 1:

```
Input: nums = [1,1]
Output: 2
Explanation:
The two possible ways are:
The class teacher selects no student.
The class teacher selects both students to form the group.
If the class teacher selects just one student to form a group then
the both students will not be happy. Therefore, there are only two
```

Java Auto

```
25
26          for ( int i = 0; i < nums.size(); i++ ) {
27              if ( sortedList.get(i) < i + 1 && totSelLessThanAnyNonSel( i + 1, sortedList ) == true ) {
28                  cases++;
29              }
30          }
31
32          return cases;
33      }
34
35      private boolean totSelLessThanAnyNonSel( int totSel, List<Integer> sortedList ) {
36
37          boolean lessThanAnyNonSel = true;
38          int i = totSel;
39
40          while ( i < sortedList.size() && lessThanAnyNonSel == true ) {
41              if ( sortedList.get(i) <= totSel ) {
42                  lessThanAnyNonSel = false;
43              }
44              i++;
45          }
46
47          return lessThanAnyNonSel;
48      }
49
--NORMAL--
```

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Testcase Result

```
[6, 0, 3, 3, 6, 7, 2, 7]
sortedList: [0, 2, 3, 3, 6, 6, 7, 7]
```

Console Run Submit