1h 11m left

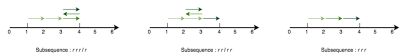
ALL

1 2 3 4 5 6 **7** **8** 9

11. Paths to a Goal

Given a number line from *0* to *n* and a string denoting a sequence of moves, determine the number of subsequences of those moves that lead from a given point *x* to end at another point *y*. Moves will be given as a sequence of *l* and *r* instructions. An instruction *l* = *left movement*, so from position *j* the new position is *j - 1*, and an instruction *r* = *right movement*, so from position *j* the new position would be *j + 1*.

For example, given a number line from *0* to 6, and a sequence of moves *rrlrlr,* the number of subsequences that lead from *1* to *4* on the number line is *3,* as shown below.



Note: Subsequences are created by deleting *0* or more elements from a sequence

C++ Autocomplete Ready

```
1   #include <bits/stdc++.h>…
9
10  /*
11   * Complete the 'distinctMoves' function below.
12   *
13   * The function is expected to return an INTEGER.
14   * The function accepts following parameters:
15   *  1. STRING s
16   *  2. INTEGER n
17   *  3. INTEGER x
18   *  4. INTEGER y
19   */
20
21  int distinctMoves(string s, int n, int x, int y) {
22
23  }
24
25  int main()…
```