The Code Sniper

Let's snipe the Leetcode problems together. No more hiding! Leetcode solution in Java! Your comments and suggestions are welcome!

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Friday, March 6, 2015
45. Jump Game II Leetcode Java
Given an array of non-negative integers, you are initially positioned at the first index of the array.
Each element in the array represents your maximum jump length at that position.
Your goal is to reach the last index in the minimum number of jumps.
For example:
Given array A = [2, 3, 1, 1, 4]
The minimum number of jumps to reach the last index is 2. (Jump 1 step from index 0 to 1, then 3 steps to the last index.)
Solution:
Dynamic programming
Using a variable to track the maximum index that current step can reach, and during the current step,
calculate the maximum index that next step can reach. When it hits the maximum index of current step,
```

update the current maximum to calculated next maximum index. When the maximum index >= A.length, return

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Time complexity: O(n)

the steps.

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```
public int jump(int[] A) {
    if(A==null || A.length<2) return 0;
    int next=0;
    int step=0;
    int cur=0;
    for(int i=0;i<A.length&&i<=cur;i++){
        cur=Math.max(cur,i+A[i]);
        if(cur>=A.length-1) return step+1;
        if(i==next){
            next=cur;
            step++;
        }
    }
    return -1;
}
```

```
Posted by liu hui at 9:39 PM
```



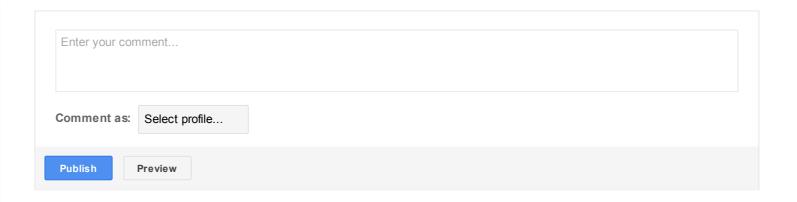
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