



Dash



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Editorial

Submissions

Aggressive Cows

Difficulty: Medium

Accuracy: 59.57%

Submissions: 105K+

Points: 4

You are given an array with unique elements of stalls[], which denote the position of a **stall**. You are also given an integer **k** which denotes the number of aggressive cows. Your task is to assign **stalls** to **k** cows such that the **minimum distance** between any two of them is the **maximum** possible.

Examples :

Input: stalls[] = [1, 2, 4, 8, 9], k = 3

Output: 3

Explanation: The first cow can be placed at stalls[0], the second cow can be placed at stalls[2] and the third cow can be placed at stalls[3].

The minimum distance between cows, in this case, is 3, which also is the largest among all possible ways.

Input: stalls[] = [10, 1, 2, 7, 5], k = 3

Output: 4

Explanation: The first cow can be placed at stalls[0], the second cow can be placed at stalls[1] and

Java (1.8)

Average Time: 30m

Start Timer



```
1 // } Driver Code Ends
30
31 class Solution {
32     public static boolean check(int[] stalls, int k, int dist){
33         int cnt = 1;
34         int prev = stalls[0];
35         for(int i = 1 ; i < stalls.length; i++){
36             if(stalls[i] - prev >= dist){
37                 prev = stalls[i];
38                 cnt++;
39             }
40         }
41         return(cnt >= k);
42     }
43     public static int aggressiveCows(int[] stalls, int k) {
44         Arrays.sort(stalls);
45         int res = 0;
46         int lo = 1;
47         int hi = stalls[stalls.length - 1] - stalls[0];
48         while(lo <= hi){
49             int mid = lo + (hi - lo) / 2;
50             if(check(stalls,k,mid)){
51                 res = mid;
52                 lo = mid + 1 ;
53             }
54             else{
55                 hi = mid - 1 ;
56             }
57         }
58         return res;
59     }
60 }
```



Custom Input

Compile & Run

Submit