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Challenges

Sherlock and Cost

Success Rate: 97.41%Max Score: 50

Try Again

Construct the Array

Success Rate: 96.22%Max Score: 35

Try Again

Kingdom Division

Success Rate: 89.79%Max Score: 50

Try Again

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Language: Java 15Open in editor

```

1
2 // Sherlock and Cost
3 import java.util.Scanner;
4
5 class Solution {
6     public static void main(String[] args) {
7         Scanner sc = new Scanner(System.in);
8         int num_of_cases = sc.nextInt();
9         while (num_of_cases-- > 0) {
10             int n = sc.nextInt();
11             int[] arr = new int[n];
12             for (int i = 0; i < n; i++) {
13                 arr[i] = sc.nextInt();
14             }
15             int high = 0, low = 0;
16             for (int i = 1; i < n; i++) {
17                 int high_low_diff = Math.abs(arr[i - 1] - 1);
18                 int low_high_diff = Math.abs(arr[i] - 1);
19                 int high_high_diff = Math.abs(arr[i] - arr[i - 1]);
20
21                 int low_next = Math.max(low, high + high_low_diff);
22                 int high_next = Math.max(high + high_high_diff, low + low_high_diff);
23
24                 low = low_next;
25                 high = high_next;
26             }
27             System.out.println(Math.max(low, high));
28         }
29         sc.close();
30     }
31 }
```

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All Contests > adadynamic > Construct the Array

Construct the Arraylocked

ProblemSubmissionsLeaderboardDiscussions

Problem	Language	Time	Result	Score
Construct the Array	Java 15	22 days ago	Accepted ✓	35

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Submitted Code

Language: Java 15

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```
1 import java.util.Scanner;
2
3 class Solution {
4     public static final long MOD = 1_000_000_007L;
5
6     public static void main(String[] args) {
7         Scanner sc = new Scanner(System.in);
8         int n = sc.nextInt();
9         int k = sc.nextInt();
10        int x = sc.nextInt();
11        System.out.println(countArray(n, k, x));
12        sc.close();
13    }
14
15    public static long countArray(int n, int k, int x) {
16        long firstCount = 0, secondCount = 1;
17        for (int i = 3; i <= n; i++) {
18            long temp = secondCount * (k - 1) % MOD;
19            secondCount = (firstCount + secondCount * (k - 2)) % MOD;
20            firstCount = temp;
21        }
22        return x == 1 ? firstCount : secondCount;
23    }
24 }
```

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Problem

Language

Time

Result

Score

[Kingdom Division](#)

Python 3

7 days ago

Accepted [✔](#)

50

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Language: Python 3

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```
1 import math
2 import os
3 import random
4 import re
5 import sys
6
7
8 def countColorings(root):
9     v = {}
10    for depth, node in d:
11        if len(t[node]) == 0:
12            v[(node, True)] = 1
13            v[(node, False)] = 0
14        else:
15            cases = 1
16            invalid = 1
17            for child in t[node]:
18                cases *= v[(child, True)] + v[(child, False)]
19                invalid *= v[(child, False)]
20            v[(node, True)] = cases
21            v[(node, False)] = cases - invalid
22    return v[(root, False)] * 2
23
24
25 def spanningTree(root):
26     stack = [(root, 0)]
27     while stack:
28         node, depth = stack.pop()
29         t[node] = set()
30         d.append((depth, node))
31         for adj in g[node]:
32             if adj not in t:
```

```

42         g[road[0]].add(road[1])
43     else:
44         g[road[0]] = {road[1]}
45     if road[1] in g:
46         g[road[1]].add(road[0])
47     else:
48         g[road[1]] = {road[0]}
49
50 global t
51 t = {}
52 global d
53 d = []
54 spanningTree(n // 2)
55 d.sort(reverse=True)
56 return countColorings(n // 2) % (10 ** 9 + 7)
57
58 if __name__ == '__main__':
59     fptr = open(os.environ['OUTPUT_PATH'], 'w')
60
61     n = int(input())
62
63     roads = []
64
65     for _ in range(n-1):
66         roads.append(list(map(int, input().rstrip().split())))
67
68     result = kingdomDivision(n, roads)
69
70     fptr.write(str(result) + '\n')
71
72     fptr.close()

```

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Status Correct Answer ✓ Time 0.65 sec Solution 52183793

Sub-Task	Task #	Result (time)
1	0	AC (0.650000)
Subtask Score: 100.00%		Result - AC
Total Score = 100.00%		

JAVA (HotSpot Bu112)

Code gets autosaved every second

```

1 import java.util.*;
2 import java.lang.*;
3 import java.io.*;
4 class CodeChef
5 {
6     public static void main (String[] args) throws java.lang.Exception
7     {
8         Scanner sc=new Scanner(System.in);
9         int t=sc.nextInt();
10        for(int o=0;o<t;o++)
11        {
12            int A=sc.nextInt();
13            int B=sc.nextInt();
14            int C=sc.nextInt();
15            int D=sc.nextInt();
16            int E=sc.nextInt();
17            if(A&B<0 && C<E)
18                System.out.println("YES");
19            else if(B&C<0 && A<E)
20                System.out.println("YES");
21            else if(C&A<0 && B<E)
22                System.out.println("YES");
23            else
24                System.out.println("NO");
25        }
26    }
27 }

```

October Challenge 2021 Division 1

MEX OR | CodeChef

CodeChef | Competitive Programming

Airline Restrictions | CodeChef

September Challenge 2021 Division 1

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codechef.com/submit/TRAVELPS

Sub-Task	Task #	(time)
1	0	AC (0.090000)
Subtask Score: 100.00%		Result - AC
Total Score = 100.00%		

```

4 class Codechef
5 {
6     public static void main (String[] args) throws java.lang.Exception
7     {
8         Scanner sc = new Scanner(System.in);
9         int t = sc.nextInt();
10        try{
11            while(t-- > 0){
12                int n,a,b;
13                n = sc.nextInt();
14                a = sc.nextInt();
15                b = sc.nextInt();
16                sc.nextLine();
17                String s = sc.nextLine();
18                char[] charArr = s.toCharArray();
19                int countZero=0,countOne=0;
20                for(int i=0;i<n;i++){
21                    if(charArr[i]=='0')countZero++;
22                    else countOne++;
23                }
24                System.out.println(a*countZero + b*countOne);
25            }
26        }
27        catch(Exception e){
28            System.out.println("");
29        }
30    }
31 }

```

codechef.com/submit/SHUFFLIN

Sub-Task	Task #	Result (time)
1	1	AC (0.480000)
Subtask Score: 100.00%		Result - AC
Total Score = 100.00%		

```

8 try{
9     Scanner scr= new Scanner(System.in);
10    int t= scr.nextInt();
11    while(t-->0){
12        int n= scr.nextInt();
13        double temp= n;
14        int oddIndex=(int) Math.ceil(temp/2);
15        int evenIndex=n-oddIndex;
16        int ar[]= new int[n];
17        int arEven=0;
18        int arOdd=0;
19        for(int i=0;i<n;i++){
20            ar[i]= scr.nextInt();
21            if(ar[i]%2==0){
22                arEven++;
23            }
24            else{
25                arOdd++;
26            }
27        }
28        int count=Math.min(oddIndex,arEven)+Math.min(evenIndex,arOdd);
29        System.out.println(count);
30    }
31    }catch(Exception e){
32        return;
33    }
34 }
35 }

```

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All Contests > adadynamic > Sherlock and Cost

Sherlock and Cost

locked

Problem

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Submitted 22 days ago • Score: 50.00

Status: Accepted

✓ Test Case #0	✓ Test Case #1	✓ Test Case #2
✓ Test Case #3	✓ Test Case #4	✓ Test Case #5
✓ Test Case #6	✓ Test Case #7	✓ Test Case #8
✓ Test Case #9	✓ Test Case #10	✓ Test Case #11
✓ Test Case #12	✓ Test Case #13	✓ Test Case #14
✓ Test Case #15	✓ Test Case #16	

Submitted Code