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2 Offers Ending

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Problem Editorial Submissions Comments

Count elements less than or equal to k in a sorted rotated array

Difficulty: Medium Accuracy: 55.56% Submissions: 13K+ Points: 4 Average Time: 15m

Given a sorted array `arr[]` containing distinct non negative integers that has been rotated at some unknown pivot, and a value `x`. Your task is to count the number of elements in the array that are less than or equal to `x`.

Examples:

Input: arr[] = [4, 5, 8, 1, 3], x = 6
Output: 4
Explanation: 1, 3, 4 and 5 are less than 6, so the count of all elements less than

Java (21) Start Timer

```
1* class Solution {
2*     public int countLessEqual(int[] arr, int x) {
3*
4*         int count = 0;
5*
6*         for (int num : arr) {
7*             if (num <= x) count++;
8*         }
9*
10    }
11}
12}
13}
```

Output Window

Compilation Results Custom Input Y.O.G.I. (AI Bot)

Problem Solved Successfully ✓ Suggest Feedback

Test Cases Passed 1113 / 1113

Attempts: Correct / Total 1 / 1

Accuracy: 100%

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Problem Editorial Submissions Comments

Difficulty: Medium Accuracy: 61.58% Submissions: 13K+ Points: 4

Maximize the minimum difference between k elements

Given an array `arr[]` of integers and an integer `k`, select `k` elements from the array such that the **minimum absolute difference** between any two of the selected elements is **maximized**. Return this **maximum** possible **minimum** difference.

Examples:

Input: `arr[] = [2, 6, 2, 5]`, `k = 3`
Output: 1
Explanation: 3 elements out of 4 elements are to be selected with a minimum

Output Window

Compilation Results Custom Input Y.O.G.I. (AI Bot)

Problem Solved Successfully ✓

Suggest Feedback

Test Cases Passed 1115 / 1115

Attempts : Correct / Total 1 / 1

Accuracy: 100%

Java (21) Start Timer

```
public int maxMinDiff(int[] arr, int k) {
    Arrays.sort(arr);
    int low = 0, high = arr[arr.length - 1] - arr[0];
    int ans = 0;
    while (low <= high) {
        int mid = (low + high) / 2;
        if (canPlace(arr, k, mid)) {
            ans = mid;
            low = mid + 1;
        } else {
            high = mid - 1;
        }
    }
    return ans;
}

boolean canPlace(int[] arr, int k, int diff) {
    int count = 1;
    int last = arr[0];
    for (int i = 1; i < arr.length; i++) {
        if (arr[i] - last >= diff) {
            count++;
            last = arr[i];
        }
    }
    return count >= k;
}
```

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Problem Editorial Submissions Comments

Unique K-Number Sum

Difficulty: Medium Accuracy: 66.73% Submissions: 12K+ Points: 4

Given two integers **n** and **k**, the task is to find all valid combinations of **k** numbers that adds up to **n** based on the following conditions:

- Only numbers from the range [1, 9] used.
- Each number can only be used at most once.

Note: You can return the combinations in any order, the driver code will print them in sorted order.

Examples:

Output Window

Compilation Results Custom Input Y.O.G.I. (AI Bot)

Problem Solved Successfully

Test Cases Passed 1120 / 1120

Attempts: Correct / Total 1 / 1

Accuracy: 100%

Java (21) Start Timer

```
import java.util.*;  
class Solution {  
    public ArrayList<ArrayList<Integer>> combinationSum(int n, int k) {  
        ArrayList<ArrayList<Integer>> result = new ArrayList<>();  
        backtrack(1, n, k, new ArrayList<>(), result);  
        return result;  
    }  
    private void backtrack(int start, int target, int k, ArrayList<Integer> current, ArrayList<ArrayList<Integer>> result) {  
        if (target == 0 && current.size() == k) {  
            result.add(new ArrayList<>(current));  
            return;  
        }  
        if (target < 0 || current.size() > k) {  
            return;  
        }  
        for (int i = start; i <= 9; i++) {  
            current.add(i);  
            backtrack(i + 1, target - i, k, current, result);  
            current.remove(current.size() - 1);  
        }  
    }  
}
```

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Java (21) Start Timer

Problem Editorial Submissions Comments

Maximum People Visible in a Line

Difficulty: Medium Accuracy: 50.11% Submissions: 17K+ Points: 4

You are given an array `arr[]`, where `arr[i]` represents the height of the `i`th person standing in a line.

A person `i` can see another person `j` if:

- `height[j] < height[i]`,
- There is no person `k` standing between them such that `height[k] ≥ height[i]`.

Each person can see in both directions (front and back).

Your task is to find the **maximum number of people** that any person can see (including themselves).

Output Window

Compilation Results Custom Input Y.O.G.I. (AI Bot)

Problem Solved Successfully

Suggest Feedback

Test Cases Passed 1120 / 1120

Attempts : Correct / Total 1 / 1

Accuracy : 100%

```
1* import java.util.*;
2
3* class Solution {
4
5*     public int maxPeople(int[] arr) {
6*         int n = arr.length;
7*
8*         int[] left = new int[n];
9*         int[] right = new int[n];
10*
11*         Stack<Integer> stack = new Stack<>();
12*
13*         for (int i = 0; i < n; i++) {
14*             while (!stack.isEmpty() && arr[stack.peek()] < arr[i]) {
15*                 stack.pop();
16*             }
17*             left[i] = stack.isEmpty() ? i : i - stack.peek() - 1;
18*             stack.push(i);
19*         }
20*
21*         stack.clear();
22*
23*         for (int i = n - 1; i >= 0; i--) {
24*             while (!stack.isEmpty() && arr[stack.peek()] < arr[i]) {
25*                 stack.pop();
26*             }
27*             right[i] = stack.isEmpty() ? (n - i - 1) : stack.peek() - i - 1;
28*             stack.push(i);
29*         }
30*
31*         int ans = 1;
32*
33*         for (int i = 0; i < n; i++) {
34*             int total = left[i] + right[i] + 1;
35*             ans = Math.max(ans, total);
36*         }
37*     }
38* }
```

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Problem Editorial Submissions Comments

Find 132 Pattern in Array

Difficulty: Medium Accuracy: 73.39% Submissions: 534+ Points: 4

You are given an array `arr[]`. The task is to determine whether the array contains a **132 pattern**, i.e., three indices i , j and k such that $i < j < k$, $\text{arr}[i] < \text{arr}[j] > \text{arr}[k]$ and $\text{arr}[i] < \text{arr}[k]$. Return `true` if such a triplet exists, otherwise return `false`.

Examples:

Input: `arr[] = [4, 7, 11, 5, 13, 2]`
Output: `true`
Explanation: Triplet `[4, 7, 5]` satisfies the condition since $4 < 7$, $5 < 7$ and $4 < 5$.

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Compilation Results Custom Input Y.O.G.I. (AI Bot)

Problem Solved Successfully Suggest Feedback

Test Cases Passed 1120 / 1120 Attempts: Correct / Total 1 / 1 Accuracy: 100%

```
Java (21) * Start Timer
1+ import java.util.*;
2
3- class Solution {
4
5-
6
7
8
9
10 int n = arr.length;
11 if (n < 3) return false;
12
13 int[] min = new int[n];
14 min[0] = arr[0];
15
16 for (int i = 1; i < n; i++) {
17     min[i] = Math.min(min[i - 1], arr[i]);
18 }
19
20 Stack<Integer> stack = new Stack<>();
21
22 for (int j = n - 1; j >= 0; j--) {
23     if (arr[j] > min[j]) {
24         while (!stack.isEmpty() && stack.peek() <= min[j]) {
25             stack.pop();
26         }
27         if (!stack.isEmpty() && stack.peek() < arr[j]) {
28             return true;
29         }
30         stack.push(arr[j]);
31     }
32 }
33
34
35
36
37 return false;
}
```

Custom Input Compile & Run Submit

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Start Timer

Java (21)

```
1+ class Solution {  
2+     public int countSubarrays(int[] arr) {  
3+         int n = arr.length;  
4+         int count = 0;  
5+         for (int i = 0; i < n; i++) {  
6+             int minVal = arr[i];  
7+             for (int j = i; j < n; j++) {  
8+                 if (arr[j] < minVal) {  
9+                     break;  
10+                }  
11+            }  
12+            count++;  
13+        }  
14+    }  
15+    return count;  
16+ }  
17+ }  
18+ }  
19+ }  
20+ }  
21+ }  
22+ }  
23+ }  
24+ }  
25+ }
```

Search...

Problem Editorial Submissions Comments

Difficulty: Medium Accuracy: 69.1% Submissions: 440+ Points: 4

Subarrays with First Element Minimum

You are given an integer array `arr[]`. Your task is to **count** the number of subarrays where the first element is the **minimum element** of that subarray.

Note: A subarray is valid if its first element is not greater than any other element in that subarray.

Examples:

Input: `arr[] = [1, 2, 1]`

Output Window

Compilation Results Custom Input Y.O.G.I. (AI Bot)

Problem Solved Successfully

Test Cases Passed Attempts : Correct / Total
1120 / 1120

You can see all your attempts in submission tab
Accuracy : 100%

Custom Input Compile & Run Submit

2 Offers Ending

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Problem Editorial Submissions Comments

Previous Greater Element

Difficulty: Medium Accuracy: 71.86% Submissions: 6K+ Points: 4

You are given an integer array `arr[]`. For every element in the array, your task is to determine its **Previous Greater Element (PGE)**.

The Previous Greater Element (PGE) of an element `x` is the first element that appears to the left of `x` in the array and is strictly greater than `x`.

Note: If no such element exists, assign `-1` as the PGE for that position.

Examples:

Output Window

Compilation Results Custom Input Y.O.G.I. (AI Bot)

Problem Solved Successfully ✓

Suggest Feedback

Test Cases Passed 1120 / 1120

Attempts : Correct / Total You can see all your attempts in submission tab Accuracy: 100%

Java (21) Start Timer

```
1* import java.util.*;
2*
3* class Solution {
4*
5* public ArrayList<Integer> preGreaterEle(int[] arr) {
6*
7*     ArrayList<Integer> res = new ArrayList<>();
8*     Stack<Integer> st = new Stack<>();
9*
10*    for (int i = 0; i < arr.length; i++) {
11*
12*        while (!st.isEmpty() && st.peek() <= arr[i]) {
13*            st.pop();
14*        }
15*
16*        if (st.isEmpty()) {
17*            res.add(-1);
18*        } else {
19*            res.add(st.peek());
20*        }
21*
22*        st.push(arr[i]);
23*
24*    }
25*
26*    return res;
27*
28* }
```

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Problem Editorial Submissions Comments

Previous Smaller Element

Difficulty: Medium Accuracy: 65.65% Submissions: 8K+ Points: 4

You are given an integer array arr[]. For every element in the array, your task is to determine its **Previous Smaller Element (PSE)**.

The Previous Smaller Element (PSE) of an element x is the first element that appears to the left of x in the array and is strictly smaller than x.

Note: If no such element exists, assign -1 as the PSE for that position.

Examples:

Output Window

Compilation Results Custom Input Y.O.G.I. (AI Bot)

Java (21)

```
import java.util.*;
class Solution {
    public ArrayList<Integer> prevsmaller(int[] arr) {
        ArrayList<Integer> res = new ArrayList<>();
        Stack<Integer> st = new Stack<>();
        for (int i = 0; i < arr.length; i++) {
            while (!st.isEmpty() && st.peek() >= arr[i]) {
                st.pop();
            }
            if (st.isEmpty()) {
                res.add(-1);
            } else {
                res.add(st.peek());
            }
            st.push(arr[i]);
        }
        return res;
    }
}
```

Problem Solved Successfully ✓

Suggest Feedback

Test Cases Passed 1115 / 1115

Attempts : Correct / Total 1 / 1

Accuracy : 100%

Custom Input Compile & Run Submit

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Problem Editorial Submissions Comments

Minimum Number Of Sprinkler

Difficulty: Hard Accuracy: 28.03% Submissions: 2K+ Points: 8

Given a one-dimensional garden of length n. In each position of the n length garden, a sprinkler has been installed. Given an array arr[] such that arr[i] describes the coverage limit of the ith sprinkler. A sprinkler can cover the range from the position **max(i - arr[i], 1)** to **min(i + arr[i], n)**. In beginning, all the sprinklers are switched off. The task is to find the minimum number of sprinklers needed to be activated such that the whole n-length garden can be covered by water.

Note: Array is 1-based indexed.

Example 1:

Output Window

Compilation Results Custom Input Y.O.G.I. (AI Bot)

Problem Solved Successfully ✓

Suggest Feedback

Test Cases Passed 163 / 163

Attempts : Correct / Total 1 / 1

Accuracy : 100%

Java (21) Start Timer

```
// Convert sprinkler range into intervals.  
for (int i = 0; i < N; i++) {  
    if (arr[i] == -1) continue;  
    int left = Math.max(0, i - arr[i]);  
    int right = Math.min(N - 1, i + arr[i]);  
    intervals.add(new int[]{left, right});  
}  
  
// Sort by starting point  
Collections.sort(intervals, (a, b) -> a[0] - b[0]);  
  
int count = 0;  
int i = 0;  
int covered = 0;  
  
while (covered < N) {  
    int farthest = covered;  
    while (i < intervals.size() && intervals.get(i)[0] <= covered) {  
        farthest = Math.max(farthest, intervals.get(i)[1] + 1);  
        i++;  
    }  
    if (farthest == covered) return -1;  
    covered = farthest;  
    count++;  
}  
  
return count;
```

Custom Input Compile & Run Submit

2 Offers Ending

Courses Tutorials Practice Jobs

Start Timer

Java (21)

```
1+ import java.util.*;
2
3+ class Solution {
4
5+
6
7
8
9
10
11+
12
13
14
15
16
17
18
19+
20
21
22
23
24
25
26
27
28
29
30
31
32
33 }
```

Import: arr[] = [8, 6, 2]
Output: 3
Explanation: Initial sum = $(8 + 6 + 2) = 16$, half = 8

Output Window

Compilation Results Custom Input Y.O.G.I. (AI Bot)

Problem Solved Successfully ✓

Suggest Feedback

Test Cases Passed Attempts : Correct / Total
1115 / 1115 1 / 1 Accuracy: 100%

Custom Input Compile & Run Submit

2 Offers Ending
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Footpath Construction

Difficulty: Medium Accuracy: 39.36% Submissions: 127+ Points: 4 Average Time: 19m

Given a matrix **a** of size **n*m** which represents a **park**, there is some construction work needs to be done. You are also given **q** queries each query contains two numbers **R** and **C**. For every query we need to construct a footpath in the **Rth** row and **Cth** column, there is a **cost** of this construction, after the construction this path will divide the park into **sections**, and the cost of the construction is the **sum of minimum value** present in all the sections. You are asked to find this cost for all the queries.

Note: Elements present in queries array are according to 1-based indexing.

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Compilation Results Custom Input Y.O.G.I. (AI Bot)

Problem Solved Successfully

Suggested Feedback

Test Cases Passed 1122 / 1122

Attempts : Correct / Total 1 / 3

Accuracy : 33%

Practice Coding Problems

Problem of the Day

Explore Connect

```
path(int n, int m, int[][] a, int q, int[][] queries) {  
    int[][] tl = new int[n][m]; // top-left  
    int[][] tr = new int[n][m]; // top-right  
    int[][] bl = new int[n][m]; // bottom-left  
    int[][] br = new int[n][m]; // bottom-right  
  
    // Top-left  
    for (int i = 0; i < n; i++) {  
        for (int j = 0; j < m; j++) {  
            tl[i][j] = a[i][j];  
            if (i > 0) tl[i][j] = Math.min(tl[i][j], tl[i - 1][j]);  
            if (j > 0) tl[i][j] = Math.min(tl[i][j], tl[i][j - 1]);  
        }  
    }  
  
    // Top-right  
    for (int i = 0; i < n; i++) {  
        for (int j = m - 1; j >= 0; j--) {  
            tr[i][j] = a[i][j];  
            if (i > 0) tr[i][j] = Math.min(tr[i][j], tr[i - 1][j]);  
            if (j < m - 1) tr[i][j] = Math.min(tr[i][j], tr[i][j + 1]);  
        }  
    }  
  
    // Bottom-left  
    for (int i = n - 1; i >= 0; i--) {  
        for (int j = 0; j < m; j++) {  
            bl[i][j] = a[i][j];  
            if (i < n - 1) bl[i][j] = Math.min(bl[i][j], bl[i + 1][j]);  
            if (j > 0) bl[i][j] = Math.min(bl[i][j], bl[i][j - 1]);  
        }  
    }  
}
```

Custom Input Compile & Run Submit

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Problem Editorial Submissions Comments

Prefix Sum of Matrix (Or 2D Array)

Difficulty: Medium Accuracy: 76.55% Submissions: 145+ Points: 4 Average Time: 20m

Given a integer matrix (or 2D array) $a[][]$ of dimensions $n * m$. Also, given another 2-D array $query[][]$ of dimensions $q * 4$.

For each index $0 < i < query.length$, find the sum of all the elements of the rectangular matrix whose top left corner is $(query[i][0], query[i][1])$ and bottom right corner is $(query[i][2], query[i][3])$.

Example -

Output Window

Compilation Results Custom Input

Compilation Completed

Case 1

Input:

```
import java.util.*;  
class Solution {  
    public ArrayList<Long> submatrixSum(long[][] a, int n, int m, int[][] query, int q) {  
        long[][] prefix = new long[n][m];  
        // Build prefix sum  
        for (int i = 0; i < n; i++) {  
            for (int j = 0; j < m; j++) {  
                prefix[i][j] = a[i][j];  
                if (i > 0) prefix[i][j] += prefix[i - 1][j];  
                if (j > 0) prefix[i][j] += prefix[i][j - 1];  
                if (i > 0 && j > 0) prefix[i][j] -= prefix[i - 1][j - 1];  
            }  
        }  
        ArrayList<Long> ans = new ArrayList<>();  
        // Process queries  
        for (int k = 0; k < q; k++) {  
            int r1 = query[k][0] - 1;  
            int c1 = query[k][1] - 1;  
            int r2 = query[k][2] - 1;  
            int c2 = query[k][3] - 1;  
            long sum = prefix[r2][c2];  
            if (r1 > 0) sum -= prefix[r1 - 1][c2];  
            if (c1 > 0) sum -= prefix[r2][c1 - 1];  
            if (r1 > 0 && c1 > 0) sum += prefix[r1 - 1][c1 - 1];  
            ans.add(sum);  
        }  
        return ans;  
    }  
}
```

Custom Input Compile & Run Submit