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Java (21)

Start Timer



Median of an Array

Difficulty: Basic Accuracy: 44.57% Submissions: 151K+ Points: 1

Given an array `arr[]` of integers, calculate the median.

Examples:

Input: arr[] = [90, 100, 78, 89, 67]

Output: 89

Explanation: After sorting the array middle element is the median

Input: arr[] = [56, 67, 30, 79]

Output: 61.5

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%



Custom Input

Compile & Run

Submit

```
1 class Solution {
2     public double findMedian(int[] arr) {
3         Arrays.sort(arr);
4         int n = arr.length;
5
6         if (n % 2 != 0) {
7             return (double) arr[n / 2];
8         } else {
9             return (double) (arr[(n - 1) / 2] + arr[n / 2]) / 2.0;
10        }
11    }
12 }
13
14 }
```

https://www.geeksforgeeks.org/problems/chocolate-distribution-problem3825/1

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Difficulty: Easy Accuracy: 49.91% Submissions: 207K Points: 2 Average Time: 15M

Given an array `arr[]` of positive integers, where each value represents the number of chocolates in a packet. Each packet can have a variable number of chocolates. There are `m` students, the task is to distribute chocolate packets among `m` students such that -

- Each student gets **exactly** one packet.
- The difference between maximum number of chocolates given to a student and minimum number of chocolates given to a student is minimum and return that minimum possible difference.

Examples:

Input: arr = [3, 4, 1, 9, 56, 7, 9, 12], m = 5
Output: 6
Explanation: The minimum difference between maximum chocolates and minimum chocolates is 9 - 3 = 6 by choosing following m packets : 3, 4, 9, 7, 9.

Output Window

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

Problem Solved Successfully ✓ Suggest Feedback

Test Cases Passed 1112 / 1112

Attempts : Correct / Total 1 / 1 Accuracy: 100%

Java (21) Start Timer

```
1 // User function Template for Java
2
3 class Solution {
4     public int findMinDiff(ArrayList<Integer> arr, int m) {
5         if (m == 0 || arr.size() == 0) {
6             return 0;
7         }
8
9         Collections.sort(arr);
10
11         int n = arr.size();
12         if (n < m) {
13             return -1;
14         }
15
16         int minDiff = Integer.MAX_VALUE;
17
18         for (int i = 0; i + m - 1 < n; i++) {
19             int currentDiff = arr.get(i + m - 1) - arr.get(i);
20             if (currentDiff < minDiff) {
21                 minDiff = currentDiff;
22             }
23         }
24
25
26     }
27 }
```

Custom Input Compile & Run Submit

https://www.geeksforgeeks.org/problems/smallest-subarray-with-sum-greater-than-x5651/1

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Smallest subarray with sum greater than x

Difficulty: Easy Accuracy: 37.07% Submissions: 154K+ Points: 2 Average Time: 20m

Given a number **x** and an array of integers **arr**, find the smallest subarray with sum greater than the given value. If such a subarray does not exist return 0 in that case.

Examples:

Input: x = 51, arr[] = [1, 4, 45, 6, 0, 19]
Output: 3
Explanation: Minimum length subarray is [4, 45, 6]

Input: x = 100, arr[] = [1, 10, 5, 2, 7]

Output Window

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

Problem Solved Successfully ✓ Suggest Feedback

Test Cases Passed 1112 / 1112

Attempts : Correct / Total 1 / 1 Accuracy : 100%

```
1 class Solution {  
2     public static int smallestSubWithSum(int x, int[] arr) {  
3         int n = arr.length;  
4         int currentSum = 0;  
5         int minLen = n + 1;  
6         int start = 0;  
7         int end = 0;  
8  
9         while (end < n) {  
10            while (currentSum <= x && end < n) {  
11                currentSum += arr[end++];  
12            }  
13  
14            while (currentSum > x && start < n) {  
15                if (end - start < minLen) {  
16                    minLen = end - start;  
17                }  
18                currentSum -= arr[start++];  
19            }  
20        }  
21  
22        return (minLen == n + 1) ? 0 : minLen;  
23    }  
24}  
25  
26}
```

Custom Input Compile & Run Submit

https://www.geeksforgeeks.org/problems/three-way-partitioning/1

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Three way partitioning

Difficulty: Easy Accuracy: 41.58% Submissions: 187K+ Points: 2 Average Time: 20m

Given an **array** and a range **a, b**. The task is to partition the array around the range such that the array is divided into three parts.

1) All elements smaller than **a** come first.
2) All elements in range **a** to **b** come next.
3) All elements greater than **b** appear in the end.

The individual elements of three sets can appear in any order. You are required to return the modified array.

Note: The generated output is true if you modify the given array successfully. Otherwise false.

Geeky Challenge: Solve this problem in $O(n)$ time complexity.

Output Window

Compilation Results

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

```
Java (21) Start Timer
```

```
1 class Solution {  
2     public void threeWayPartition(int arr[], int a, int b) {  
3         // code here  
4         int n = arr.length;  
5         int low = 0;  
6         int high = n - 1;  
7         int i = 0;  
8  
9         while (i <= high) {  
10             if (arr[i] < a) {  
11                 int temp = arr[i];  
12                 arr[i] = arr[low];  
13                 arr[low] = temp;  
14                 low++;  
15                 i++;  
16             } else if (arr[i] > b) {  
17                 int temp = arr[i];  
18                 arr[i] = arr[high];  
19                 arr[high] = temp;  
20                 high--;  
21             } else {  
22                 i++;  
23             }  
24         }  
25     }  
26 }
```

Problem Solved Successfully ✓

Suggest Feedback

Test Cases Passed

Attempts : Correct / Total

1111 / 1111 1 / 1 Accuracy : 100%

Custom Input Compile & Run Submit

https://www.geeksforgeeks.org/problems/minimum-swaps-required-to-bring-all-elements-less-than-or-equal-to-k-together4847/1

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Given an array **arr** and a number **k**. One can apply a swap operation on the array any number of times, i.e. choose any two index *i* and *j* (*i* < *j*) and swap **arr[i]**, **arr[j]**. Find the **minimum** number of swaps required to bring all the numbers less than or equal to **k** together, i.e. make them a contiguous subarray.

Examples :

Input: arr[] = [2, 1, 5, 6, 3], k = 3
Output: 1
Explanation: To bring elements 2, 1, 3 together, swap index 2 with 4 (0-based indexing), i.e. element arr[2] = 5 with arr[4] = 3 such that final array will be- arr[] = [2, 1, 3, 6, 5]

Input: arr[] = [2, 7, 9, 5, 8, 7, 4], k = 6

Output Window

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

Problem Solved Successfully ✓ Suggest Feedback

Test Cases Passed 1112 / 1112

Attempts : Correct / Total 1 / 1 Accuracy : 100%

Java (21) Start Timer

```
1 * class Solution {  
2 *     // Function for finding minimum swaps required  
3 *     int minSwap(int arr[], int k) {  
4 *         int n = arr.length;  
5 *  
6 *         // 1. Count how many elements are less than or equal to k  
7 *         int count = 0;  
8 *         for (int i = 0; i < n; i++) {  
9 *             if (arr[i] <= k) {  
10 *                 count++;  
11 *             }  
12 *         }  
13 *  
14 *         // 2. Count how many "bad" elements (greater than k)  
15 *         // are in the first window of size 'count'  
16 *         int bad = 0;  
17 *         for (int i = 0; i < count; i++) {  
18 *             if (arr[i] > k) {  
19 *                 bad++;  
20 *             }  
21 *         }  
22 *  
23 *         // Initialize answer with 'bad' elements in the first window  
24 *         int ans = bad;  
25 *  
26 *         // 3. Use a sliding window to check all other windows of size 'count'  
27 *         for (int i = 0, j = count; j < n; i++, j++) {  
28 *  
29 *             // If the element leaving the window was bad, decrement bad count  
30 *             if (arr[i] > k) {  
31 *                 bad--;  
32 *             }  
33 *  
34 *             // If the element entering the window is bad, increment bad count  
35 *             if (arr[j] > k) {  
36 *                 bad++;  
37 *             }  
38 *         }  
39 *     }  
40 * }
```

Custom Input Compile & Run Submit