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Java (21)

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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

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Test Cases Passed

1115 / 1115

Attempts : Correct / Total

1 / 1

Accuracy : 100%

```
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
```

[Custom Input](#)[Compile & Run](#)[Submit](#)

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

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Problem

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Difficulty: Easy

Accuracy: 49.91%

Submissions: 267K+

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

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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

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```
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         return minDiff;
26     }
27 }
```

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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 do 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%

Java (21) ▾

Start Timer



```
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             return (minLen == n + 1) ? 0 : minLen;
22         }
23     }
24 }
25
26
```



[Custom Input](#)

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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)

Problem Solved Successfully

[Suggest Feedback](#)

Test Cases Passed
1111 / 1111

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

```
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 }
```



[Custom Input](#)

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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 — 🔍 ✕

Problem Solved Successfully ✓ [Suggest Feedback](#)

Test Cases Passed
1112 / 1112

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

```
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 }
```