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100% 195/195

scored in **Mock Test** in 26 min 55 sec on 18 Aug 2025 16:15:24 IST

Algorithms 195/195

Constructive Algorithms 90/90

Core CS 195/195

Easy 105/105

Greedy Algorithms 90/90

Medium 90/90

Problem Solving 195/195

Search 105/105

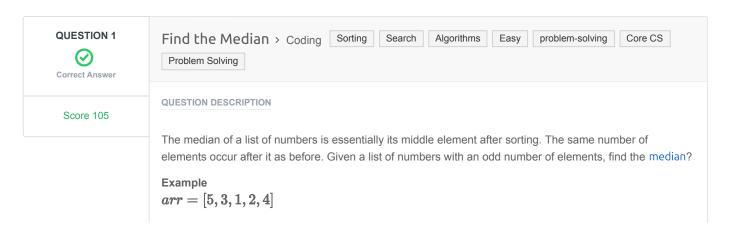
Sorting 105/105

problem-solving 195/195

Recruiter/Team Comments:

No Comments.

	Question Description	Time Taken	Score	Status
Q1	Find the Median > Coding	4 min 34 sec	105/ 105	②
Q2	Flipping the Matrix > Coding	22 min 5 sec	90/ 90	⊘



The sorted array arr'=[1,2,3,4,5]. The middle element and the median is 3.

Function Description

Complete the findMedian function in the editor below.

findMedian has the following parameter(s):

• int arr[n]: an unsorted array of integers

Returns

• int: the median of the array

Input Format

The first line contains the integer n, the size of arr.

The second line contains n space-separated integers arr[i]

Constraints

- $1 \le n \le 1000001$
- **n** is odd
- $-10000 \le arr[i] \le 10000$

Sample Input 0

```
7
0 1 2 4 6 5 3
```

Sample Output 0

3

Explanation 0

The sorted arr = [0, 1, 2, 3, 4, 5, 6]. It's middle element is at arr[3] = 3.

CANDIDATE ANSWER

Language used: C

```
* Complete the 'findMedian' function below.
4 *
5 * The function is expected to return an INTEGER.
   * The function accepts INTEGER ARRAY arr as parameter.
   */
8 int comp(const void *x,const void *y)
9 {
      return(*(int*)x-*(int*)y);
11 }
12 int findMedian(int arr_count, int* arr) {
      qsort(arr,arr count,sizeof(int),comp);
      int mid;
     int median;
      if(arr_count%2!=0)
        mid=arr_count/2;
          median=arr[mid];
      if(arr_count%2==0)
          mid=arr count/2;
24
          median=(arr[mid]+arr[mid-1])/2;
```

return median;								
}								
TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED		
TESTOASE	DITTICOLIT	TITE	31A103	JUUINE	TIME TAKEN	WEWORT OSED		
Testcase 1	Easy	Sample case	Success	0	0.0102 sec	7.25 KB		
Testcase 2	Easy	Hidden case	Success	35	0.0086 sec	7.25 KB		
Testcase 3	Easy	Hidden case	Success	35	0.0099 sec	7.13 KB		
Testcase 4	Easy	Hidden case	Success	35	0.0236 sec	8.75 KB		
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QUESTION 2



Score 90



QUESTION DESCRIPTION

Sean invented a game involving a $2n \times 2n$ matrix where each cell of the matrix contains an integer. He can reverse any of its rows or columns any number of times. The goal of the game is to maximize the sum of the elements in the $n \times n$ submatrix located in the upper-left quadrant of the matrix.

Given the initial configurations for q matrices, help Sean reverse the rows and columns of each matrix in the best possible way so that the sum of the elements in the matrix's upper-left quadrant is maximal.

Example

matrix = [[1, 2], [3, 4]]

1 2

3 4

It is 2×2 and we want to maximize the top left quadrant, a 1×1 matrix. Reverse row 1:

1 2

4 3

And now reverse column 0:

4 2

1 3

The maximal sum is 4.

Function Description

Complete the *flippingMatrix* function in the editor below.

flippingMatrix has the following parameters:

- int matrix[2n][2n]: a 2-dimensional array of integers

Returns

- int: the maximum sum possible.

Input Format

The first line contains an integer q, the number of queries.

The next q sets of lines are in the following format:

- The first line of each query contains an integer, $oldsymbol{n}$.
- Each of the next 2n lines contains 2n space-separated integers matrix[i][j] in row i of the matrix.

Constraints

- $1 \le q \le 16$
- $1 \le n \le 128$
- $0 \leq matrix[i][j] \leq 4096$, where $0 \leq i,j < 2n$.

Sample Input

Sample Output

414

Explanation

Start out with the following 2n imes 2n matrix:

$$matrix = egin{bmatrix} 112 & 42 & 83 & 119 \ 56 & 125 & 56 & 49 \ 15 & 78 & 101 & 43 \ 62 & 98 & 114 & 108 \end{bmatrix}$$

Perform the following operations to maximize the sum of the $n \times n$ submatrix in the upper-left quadrant:

2. Reverse column **2** ([83, 56, 101, 114] \rightarrow [114, 101, 56, 83]), resulting in the matrix:

$$matrix = egin{bmatrix} 112 & 42 & 114 & 119 \ 56 & 125 & 101 & 49 \ 15 & 78 & 56 & 43 \ 62 & 98 & 83 & 108 \end{bmatrix}$$

3. Reverse row 0 ([112, 42, 114, 119] \rightarrow [119, 114, 42, 112]), resulting in the matrix:

$$matrix = egin{bmatrix} 119 & 114 & 42 & 112 \ 56 & 125 & 101 & 49 \ 15 & 78 & 56 & 43 \ 62 & 98 & 83 & 108 \end{bmatrix}$$

The sum of values in the $n \times n$ submatrix in the upper-left quadrant is 119+114+56+125=414 .

CANDIDATE ANSWER

Language used: C

```
1
2 /*
3 * Complete the 'flippingMatrix' function below.
```

```
4
 5 * The function is expected to return an INTEGER.
6 * The function accepts 2D_INTEGER_ARRAY matrix as parameter.
8 int find_best(int i,int j,int n,int rows,int cols,int **mat)
9 {
       int choice[4];
       choice[0]=mat[i][j];
      choice[1]=mat[i][cols-1-j];
      choice[2]=mat[rows-i-1][j];
14
      choice[3]=mat[rows-i-1][cols-j-1];
      int best_of_all=choice[0];
      for(int s=1; s<4; s++)
           if(choice[s]>best of all)
               best_of_all=choice[s];
       }
       return best_of_all;
24 }
25 int flippingMatrix(int matrix_rows, int matrix_columns, int** matrix) {
       int n=matrix rows/2;
       long long tot=0;
       for(int a=0;a<n;a++)
           for (int b=0; b < n; b++)
               tot+=find_best(a,b,n,matrix_rows,matrix_columns,matrix);
       }
       return (int)tot;
36 }
```

TESTCASE	DIFFICULTY	TYPE	STATUS	SCORE	TIME TAKEN	MEMORY USED
Testcase 1	Easy	Sample case	Success	0	0.0063 sec	7.25 KB
Testcase 2	Easy	Hidden case	Success	15	0.0249 sec	12.4 KB
Testcase 3	Easy	Hidden case	Success	15	0.0452 sec	15.5 KB
Testcase 4	Easy	Hidden case	Success	15	0.0439 sec	11.3 KB
Testcase 5	Easy	Hidden case	Success	15	0.0333 sec	13 KB
Testcase 6	Easy	Hidden case	Success	15	0.0306 sec	14.1 KB
Testcase 7	Easy	Hidden case	Success	15	0.0359 sec	14.5 KB
Testcase 8	Easy	Sample case	Success	0	0.0078 sec	7.38 KB

No Comments

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