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Pushpitha P

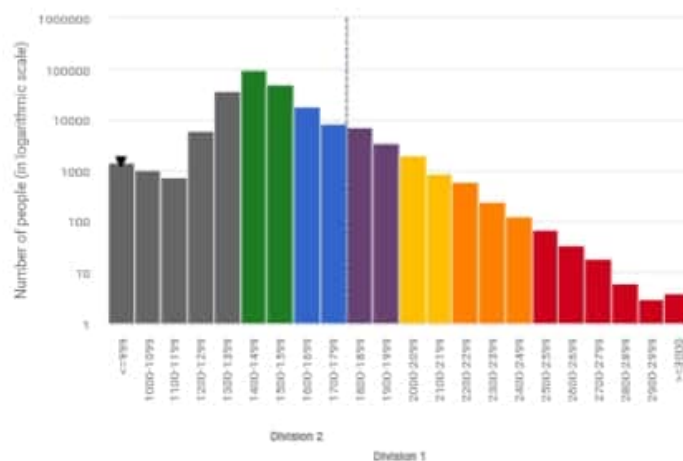


Username:	pushpitha2001
Country:	India
State:	Karnataka
City:	Mysuru
Student/Professional:	Student
Institution:	Alvas Institute of Engineering and Technology Karnataka, India
Teams List:	List of teams by Pushpitha P
Team Invites:	Click here to check team invites

Rating Graphs



CodeChef Rating Distribution



0



CodeChef Rating

(Highest Rating 0)

NA

Global Rank

NA

Country Rank

Contests	Rating	Global Rank	Country Rank
Long Challenge	0	NA	NA
Cook-off	0	NA	NA
Lunch Time	0	NA	NA

Recent Activity

Date/Time	Problem	Result	Lang
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Ide ✕ +

C++14 (gcc 6.3)

```

1 #include <stdio.h>
2 int main() {
3     int a[10][10], transpose[10][10], r, c, i, j;
4     printf("Enter rows and columns: ");
5     scanf("%d %d", &r, &c);
6     printf("\nEnter matrix elements:\n");
7     for (i = 0; i < r; ++i)
8         for (j = 0; j < c; ++j) {
9             printf("Enter element a[%d][%d]: ", i + 1, j + 1);
10            scanf("%d", &a[i][j]);
11        }
12    printf("\nEnter matrix: \n");
13    for (i = 0; i < r; ++i)
14        for (j = 0; j < c; ++j) {
15            printf("%d ", a[i][j]);
16            if (j == c - 1)
17                printf("\n");
18        }
19    for (i = 0; i < r; ++i)
20        for (j = 0; j < c; ++j)
21            transpose[j][i] = a[i][j];
22    printf("\nTranspose of the matrix:\n");
23    for (i = 0; i < c; ++i)
24        for (j = 0; j < r; ++j) {
25            printf("%d ", transpose[j][i]);
26        }
27    }
28 }

```

Open File

✓ Custom Input

Run

Custom Input

```

2 2
2 2
10 20
30 40

```

Status: Successfully executed Date: 2020-06-13 04:03:19 Time: 0 sec Mem: 15.232 kB

Input

```

2 2
2 2
10 20
30 40

```

Output

```

Enter rows and columns:
Enter matrix elements:
Enter element a11: Enter element a12: Enter element a21: Enter element a22:
Entered matrix:
2 2
10 20

```



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Code, Compile & Run

Ide

C++14 (gcc 6.3)

```

1  scanf("%d %d", &r, &c);
2  printf("\nEnter matrix elements:\n");
3  for (i = 0; i < r; ++i)
4  {
5      for (j = 0; j < c; ++j) {
6          printf("Enter element a%d%d: ", i + 1, j + 1);
7          scanf("%d", &a[i][j]);
8      }
9  }
10 printf("\nEnter matrix: \n");
11 for (i = 0; i < r; ++i)
12 {
13     for (j = 0; j < c; ++j) {
14         printf("%d ", a[i][j]);
15         if (j == c - 1)
16             printf("\n");
17     }
18 }
19 for (i = 0; i < r; ++i)
20 {
21     for (j = 0; j < c; ++j)
22     {
23         transpose[j][i] = a[i][j];
24     }
25 }
26 printf("\nTranspose of the matrix:\n");
27 for (i = 0; i < c; ++i)
28 {
29     for (j = 0; j < r; ++j) {
30         printf("%d ", transpose[i][j]);
31         if (j == r - 1)
32             printf("\n");
33     }
34 }
35 return 0;

```

240

Open File

✓ Custom Input

Run

Custom Input

```

2 2
2 2
10 20
30 40

```

Status Successfully executed Date 2020-06-13 04:03:19 Time 0 sec Mem 15.232 kB

Input

```

2 2
2 2
10 20
30 40

```

Output

```

Enter rows and columns:
Enter matrix elements:
Enter element a11: Enter element a12: Enter element a21: Enter element a22:
Enter matrix:
2 2
10 20

```

Algorithm to transpose a matrix

Step 1 :- Start

Step 2 :- Declare all the necessary variables

Step 3 :- Enter the order of matrix

Step 4 :- Enter the elements of matrix row-wise using loop.

Step 5 :- Display the entered matrix in standard format
(it is not a compulsory step).

Step 6 :- Assign number of rows with number of column

Step 7 :- Swap $(i, j)^{\text{th}}$ element with (j, i) .

Step 8 :- Stop.

