



OR

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☒ Student ☐ Professional ☐ Other

Alvas Institute of Engineering & Technology



2020 ▼

C(gcc 6.3) ▼

☒ Send me newsletter & contest invitations.

☒ I abide by [CodeChef's Code Of Conduct](#).

Register

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**B.H. Rashmi**


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 Country:  India

State: Karnataka

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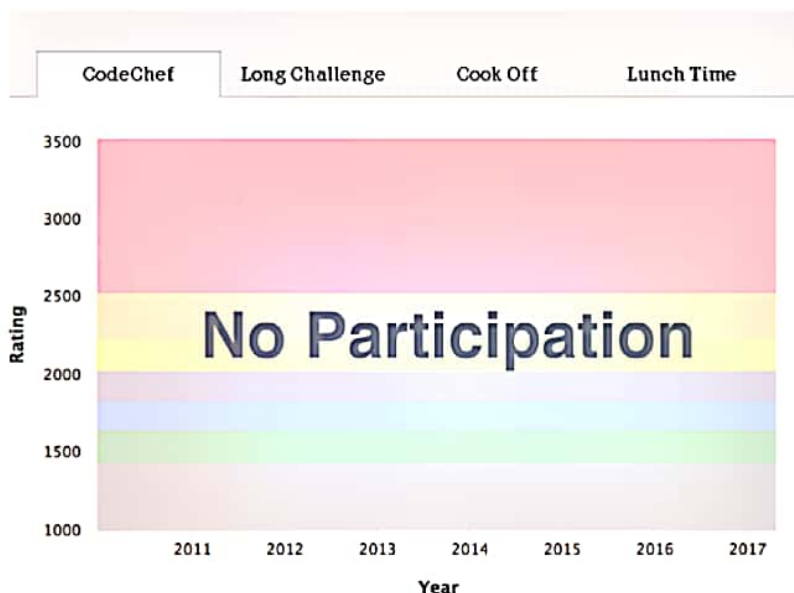
Student/Professional: Student

Institution: Alvas Institute of Engineering and Technology Karnataka, India

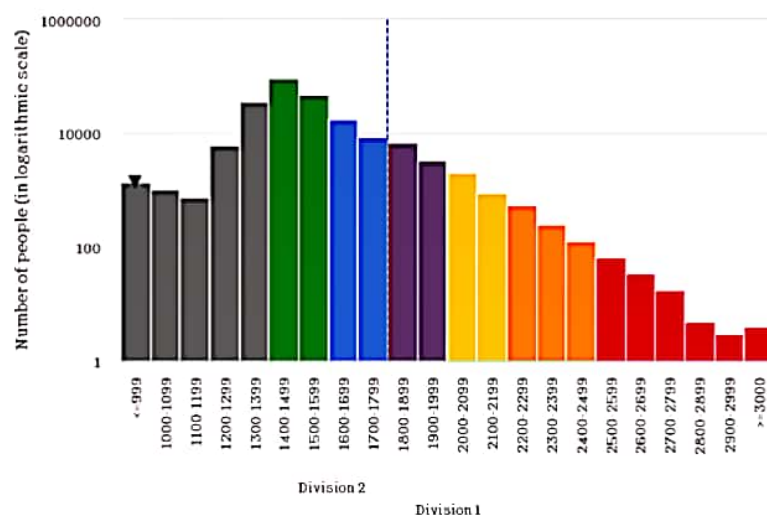
 Teams List: List of [teams](#) by B.H. Rashmi

 Team Invites: Click [here](#) to check team invites. **0**

### 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	<a href="#">NA</a>	<a href="#">NA</a>
Cook-off	0	<a href="#">NA</a>	<a href="#">NA</a>
Lunch Time	0	<a href="#">NA</a>	<a href="#">NA</a>

### Recent Activity

Date/Time	Problem	Result	Lang
No Recent Activity			

## Code, Compile & Run

```
C++14 (gcc 6.3)
1
2 #include <stdio.h>
3 int main() {
4     int a[10][10], transpose[10][10], r, c, i, j;
5     printf("Enter rows and columns: ");
6     scanf("%d %d", &r, &c);
7     printf("\nEnter matrix elements:\n");
8     for (i = 0; i < r; ++i)
9         for (j = 0; j < c; ++j) {
10             printf("Enter element a[%d][%d]: ", i + 1, j + 1);
11             scanf("%d", &a[i][j]);
12         }
13     printf("\nEnter matrix:\n");
14     for (i = 0; i < r; ++i)
15         for (j = 0; j < c; ++j) {
16             printf("%d\t", a[i][j]);
17             if (j == c - 1)
18                 printf("\n");
19         }
20     for (i = 0; i < r; ++i)
21         for (j = 0; j < c; ++j)
22             transpose[j][i] = a[i][j];
23 }
24
25 printf("\nTranspose of the matrix:\n");
26 for (i = 0; i < c; ++i)
27     for (j = 0; j < r; ++j) {
28         printf("%d\t", transpose[j][i]);
29     }
30 }
```

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
```

## Code, Compile & Run

```
ide x +
C++14 (gcc 6.3)
6 scanf("%d %d", &r, &c);
7 printf("\nEnter matrix elements:\n");
8 for (i = 0; i < r; ++i)
9     for (j = 0; j < c; ++j) {
10         printf("Enter element a[%d][%d]: ", i + 1, j + 1);
11         scanf("%d", &a[i][j]);
12     }
13 printf("\nEnter matrix: \n");
14 for (i = 0; i < r; ++i)
15     for (j = 0; j < c; ++j) {
16         printf("%d ", a[i][j]);
17         if (j == c - 1)
18             printf("\n");
19     }
20 for (i = 0; i < r; ++i)
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     for (j = 0; j < r; ++j) {
29         printf("%d ", transpose[i][j]);
30         if (j == r - 1)
31             printf("\n");
32     }
33 return 0;
34 }
```

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:
Entered matrix:
2 2
10 20
```

C program to implement transpose of a matrix :

Algorithm :-

- 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
- step 6 :- Assign number of rows with number of column.
- step 7 :- swap  $(i, j)^{th}$  element with  $(j, i)$
- step 8 :- stop

Flowchart :-

