CODECHEF
An Educational Initiative

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Pushpitha P

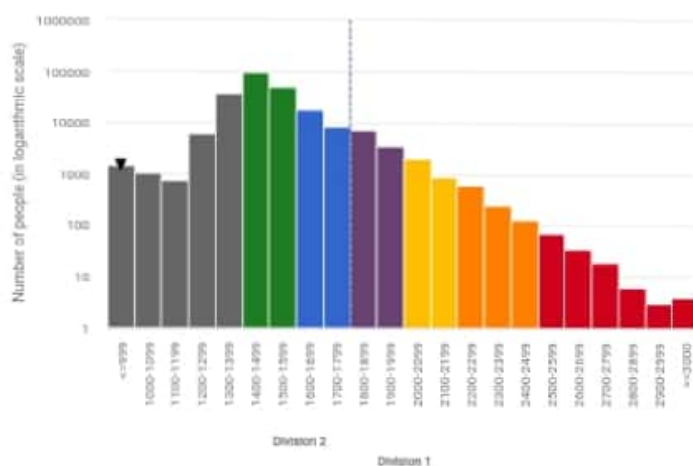|	
Username:	pushpitha2001
Country:	India
State:	Karnataka
City:	Mysuru
Student/Professional:	Student
Institution:	Alvas Institute of Engineering and Technology Karnataka, India
Teams List:	List of teams by Pushpitha P
Team Invites:	Click here to check team invites

Rating Graphs

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
	No Recent Activity		

CodeChef	Long Challenge	Cook Off	Lunch Time

No Participation

CodeChef Rating Distribution

Home » IDE

Code, Compile & Run

Ide ✕ +

C++14 (gcc 6.3) ▼   ℹ ⬇ ↗ ⚙

```
 1  #include <stdio.h>
 2  int main()
 3  {
 4      int m, n, c, d, matrix[100][100], maximum;
 5
 6      printf("Enter the number of rows and columns of matrix\n");
 7      scanf("%d%d",&m,&n);
 8
 9      printf("Enter the elements of the matrix\n");
10
11      for (c = 0; c < m; c++)
12        for(d = 0; d < n; d++)
13          scanf("%d", &matrix[c][d]);
14
15      maximum = matrix[0][0];
16
17      for (c = 0; c < m; c++)
18        for (d = 0; d < n; d++)
19          if (matrix[c][d] > maximum)
20            maximum = matrix[c][d];
21
22      printf("Maximum element in the matrix is %d\n", maximum);
23
24      return 0;
25  }
26
```

0:1   ⟳

| Open File | ✓ Custom Input | Run |

Custom Input
```
2 2
10 20
30 40
```

Status Successfully executed   Date 2020-06-14 05:07:56   Time 0 sec   Mem 15.232 kB   ✕

Input
```
2 2
10 20
30 40
```

Output
```
Enter the number of rows and columns of matrix
Enter the elements of the matrix
Maximum element in the matrix is 40
```

Algorithm to find the maximum element in each row and column of a matrix.

Step 1 :- Start

Step 2 :- Input the order of the matrix.

Step 3 :- Input the matrix elements

Step 4 :- for row = 0 to n-1

Step 5 :- Find the maximum element in the row and insert the element in an array.

Step 6 :- Print the array.

Step 7 :- Stop.

Flowchart

```
                        ( Start )
                           │
                           ▼
              ┌─────────────────────────┐
             /  Input n and an          /
            /   array A of size n      /
           └─────────────────────────┘
                      │
                      ▼                                    ┌──────────┐
              ┌──────────────┐                             │ max = i  │
              │  i = 0       │ ◄──────── False ────────┐   └──────────┘
              │  max = 0     │                         │        ▲
              └──────────────┘                         │        │ True
                      │                                │        │
                      ▼                                │        │
                  ╱  i < n  ╲ ──── True ───────►  ╱ A[j] > A[max] ╲
                  ╲         ╱                     ╲               ╱
                      │ False
                      ▼
             ┌─────────────────────┐
            /  Print A[max]        /
           └─────────────────────┘
                      │
                      ▼
                  ( Stop )
```

Flowchart