https://course.acciojob.com/idle?question=7251cda0-018c-4e39-92dc-9340e8aabcbb

- EASY
- Max Score: 30 Points

Print Matrix Column Wise

Given a 2-D matrix `A` with `N` rows and `M` columns. Print the matrix in column-major order.

Your task is to complete the function `printMatrixColumnwise` which receives the input matrix, `N`, and `M` as its parameters and prints the matrix in column major order.

Input Format

The first line contains the number of test cases.

For each test case: The first line contains two integers `N` and `M` denoting the number of rows and columns respectively.

The next `N` lines contains `M` integers each denoting the elements of matrix `A`.

Output Format

For each test case print `N*M` space-separated integers, the elements of the matrix column wise in a single line.

Example 1

Input:

```
1
3 3
1 2 3
4 5 6
7 8 9
```

Output:

```
1 4 7 2 5 8 3 6 9
```

Explanation:

The elements of the matrix have been printed column wise.

Example 2

Input:

```
1
2 2
1 3
2 4
```

Output:

```
1 2 3 4
```

Explanation:

The elements of the matrix have been printed column wise.

Constraints

1 <= T <= 10

1 <= N,M <= 1000

0 <= A[i] <= 100000

Topic Tags

- **2D-Arrays**

My code

```
// in java
import java.util.*;

class Solution {
    public void printMatrixColumnwise(int[][] mat,int n,int m) {
        //Write code here and print output
                for (int j = 0; j < m; j++)
                        for (int i = 0; i < n; i++)
                                System.out.print(mat[i][j]+" ");
                System.out.print("\n");

    }
}

public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int t;
        t = sc.nextInt();
        while(t>0)
        {
            int n;
       int m;
        n = sc.nextInt();
       m = sc.nextInt();
        int[][] matrix = new int[n][m];
        for (int i = 0; i < n; i++)
            for (int j = 0; j < m; j++)
                matrix[i][j] = sc.nextInt();
        Solution Obj = new Solution();
        Obj.printMatrixColumnwise(matrix,n,m);
        t--;
```

```
        }
        sc.close();
    }
}
```