Transpose.java ×   RowColumn.java ×

```java
package com.company;
import java.util.Scanner;
public class Transpose{
    public static void main(String[] args){
        Scanner s=new Scanner(System.in);
        int r,c;
        System.out.println("Enter the number of rows:");
        r=s.nextInt();
        System.out.println("Enter the number of columns:");
        c=s.nextInt();
        int[][] a=new int[r][c];
        int[][] b=new int[c][r];
        for (int i=0;i<r;i++){
            for (int j=0;j<c;j++){
                System.out.printf("Input a[%d][%d]=",i,j);
                a[i][j]=s.nextInt();
            }
        }
        for (int i=0;i<r;i++){
            for (int j=0;j<c;j++){
                b[j][i]=a[i][j];
            }
        }
        System.out.println("Transpose of the matrix:");
        for (int i=0;i<c;i++){
            for (int j=0;j<r;j++){
                System.out.print(b[i][j]+"  ");
```

Run: Inheri2_abstract ×   Transpose ×

```java
        for (int i=0;i<r;i++){
            for (int j=0;j<c;j++){
                b[j][i]=a[i][j];
            }
        }
        System.out.println("Transpose of the matrix:");
        for (int i=0;i<c;i++){
            for (int j=0;j<r;j++){
                System.out.print(b[i][j]+"  ");
            }
            System.out.println();
        }
    }
}
```

```
"C:\Program Files\Java\jdk1.8.0_261\bin\java.exe" ...
Enter the number of rows:
2

Enter the number of columns:
3

Input a[0][0]=1
Input a[0][1]=2
Input a[0][2]=3
Input a[1][0]=4
Input a[1][1]=5
Input a[1][2]=6
Transpose of the matrix:
1  4
2  5
3  6


Process finished with exit code 0
```