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transpose.java • circle.java • actor.java • sortedarray.java • fullarray_posneg.java × stringcount.java × operators.java ▼
1  /*Develop a Java program to find the transpose of a given matrix of order MXN.*/
2  import java.util.Scanner;
3  class trans{
4      public static void main(String args[]){
5          int i,j;
6          Scanner ss=new Scanner(System.in);
7          System.out.println("Enter the order of the matrix:");
8          System.out.print("m=");
9          int m=ss.nextInt();
10         System.out.println("");
11         System.out.print("n=");
12         int n=ss.nextInt();
13         int a[][]=new int[m][n];
14         int b[][]=new int[n][m];
15         System.out.println("Enter the elements of the matrix");
16         for(i=0;i<m;i++){
17             for(j=0;j<n;j++){
18                 System.out.print("a["+i+"]"+"["+j+"]=");
19                 a[i][j]=ss.nextInt();
20             }
21         }
22         for(i=0;i<m;i++){
23             for(j=0;j<n;j++){
24                 b[j][i]=a[i][j];
25             }
26         }
27         System.out.println("The transpose of the given matrix is:");
28         for(i=0;i<n;i++){
29             for(j=0;j<m;j++){
30                 System.out.print(b[i][j] + " ");
31             }
32             System.out.println();
33         }
34     }
35 }
36
```

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C:\Program Files\Java\bin\basic>javac transpose.java
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```
C:\Program Files\Java\bin\basic>java trans
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```
Enter the order of the matrix:
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```
m=2
```

```
n=3
```

```
Enter the elements of the matrix
```

```
a[0][0]=1
```

```
a[0][1]=3
```

```
a[0][2]=5
```

```
a[1][0]=7
```

```
a[1][1]=9
```

```
a[1][2]=0
```

```
The transpose of the given matrix is:
```

```
1 7
```

```
3 9
```

```
5 0
```

```
C:\Program Files\Java\bin\basic>
```