

NPTEL » Programming in Java

Announcements **About the Course** Ask a Question

Progress

Mentor

Java Week 9: Q4

Due on 2020-11-19, 23:59 IST

A program needs to be developed which can mirror reflect any 5 × 5 2D character array into its side-by-side reflection. Write suitable code to achieve this transformation as shown below:

INPUT:	●UTPUT:
OOX	••x••
OOX	••x••
$XXX \bullet \bullet$	••XXX
000	••••
XOABC	CBAOX

Note the following points carefully:

- 1. Here, instead of X and O any character may be present.
- 2. The input and output array size must be of dimension 5×5 and nothing else.
- 3. Only side-by-side reflection should be performed i.e. ABC || CBA.

ate Test cases used for evaluation	Input	Expected Output	Actual Output	Status
	XOOOX	X000X\n	X000X\n	
	OXOXO	0X0X0\n	OXOXO\n	
est Case 1	00X00	00X00\n	00X00\n	Passed
	00000	00000\n	00000\n	
	X0000	0000X	0000X\n	
est Case 2	000X0	0X000\n	0X000\n	
	00X00	00X00\n	00X00\n	
	0X000	000X0\n	000X0\n	Passed
	00X00	00X00\n	00X00\n	
	000X0	0X000	0X000\n	

The due date for submitting this assignment has passed.

2 out of 2 tests passed.

You scored 100.0/100.

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Assignment submitted on 2020-11-10, 22:58 IST

Your last recorded submission was :

Sample solutions (Provided by instructor)

```
import java.util.Scanner;
public class Question94{
   public static void main(String args[]){
        Scanner sc = new Scanner(System.in);
// Declare necessary variables
         // Input 5x5 2D Array using Scanner Class
          // Perform the reflection operation
         // Output 5x5 2D Reflection Array
char original[][]= new char[5][5];
// Declaring 5x5 2D char array to store reflection
char reflection[][]= new char[5][5];
                              // Input 2D Array using Scanner Class
for(int line=0;line<5; line++){
   String input = sc.nextline();
   char seq[] = input.toCharArray();
   if(seq.length==5){
        for(int i=0;i5;i++){
            original[line][i]=seq[i];
        }
}</pre>
                              // Performing the reflection operation
for(int i=0; i<5;i++){
    for(int j=0; i<5;j++){
        reflection[i][j]=original[i][4-j];
    }</pre>
                              // Output the 2D Reflection Array
for(int i=0; i<5;i++){
    for(int j=0; j<5;j++){
        System.out.print(reflection[i][j]);
    }</pre>
```

import java.util.Scanner;
public class Question94(
 public static void main(String args[]){
 Scanner sc = new Scanner(System.in);
 // Declaring 5x5 2D char array to store input char original[][] = new char[5][5]; // Declaring 5x5 2D char array to store reflection
char reflection[][]= new char[5][5]; 10 11 12 13 14 15 // Input 2D Array using Scanner Class
for(int line=0;line<5; line++){
 String input = sc.nextLine();
 char seq[] = input.toCharArray();
 if(seq.length==5){
 for(int i=0;i<5;i++){
 originalfline[fi]=seq[i1:</pre>

```
Course outline
```

How does an NPTEL online course work?

Week 0 : Assignment 0

Week 1:

Week 2:

Week 3:

Week 4:

Week 5:

Week 6:

Week 7:

Week 8:

Week 9:

- Lecture 41 : Demonstration-
- Lecture 42 : AWT Programming--III
- Lecture 43 : Swing-I
- Lecture 44 : Swing-II
- Lecture 45 : Demonstration-
- Quiz: Assignment 9
- Java Week 9: Q1
- Java Week 9: Q2
- Java Week 9: Q3
- lava Week 9: 04
- lava Week 9: 05
- Feedback For Week 9

Week 10:

Week 11:

Week 12: Solution

DOWNLOAD VIDEOS

Text Transcripts

Programming Test - (April 11 - 10AM - 12 PM)

Programming Test - (April 11 - 8PM - 10 PM)