



OneCompiler

Main.java 43wvmzmag

```
1 import java.util.*;
2
3 public class Main {
4     public static void main(String[] args) {
5         Scanner sc = new Scanner(System.in);
6
7         int N = sc.nextInt();
8         int M = sc.nextInt();
9         int[][] mat = new int[N][M];
10
11         for (int i = 0; i < N; i++) {
12             for (int j = 0; j < M; j++) {
13                 mat[i][j] = sc.nextInt();
14             }
15         }
16
17         int top = 0, bottom = N - 1, left = 0, right = M - 1;
18
19         while (top <= bottom && left <= right) {
20
21             for (int j = left; j <= right; j++) {
22                 System.out.print(mat[top][j] + " ");
23             }
24             top++;
25
26             for (int i = top; i <= bottom; i++) {
27                 System.out.print(mat[i][right] + " ");
28             }
29             right--;
30
31         }
```

STDIN

33  
123  
456

Output:

1 2 3 6 9 8 7 4 5

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```
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2
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5         Scanner sc = new Scanner(System.in);
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7         int N = sc.nextInt();
8         int M = sc.nextInt();
9
10        int[][] mat = new int[N][M];
11        for (int i = 0; i < N; i++) {
12            for (int j = 0; j < M; j++) {
13                mat[i][j] = sc.nextInt();
14            }
15        }
16
17        // Print transpose
18        for (int j = 0; j < M; j++) { // columns of original = rows of transpose
19            for (int i = 0; i < N; i++) { // rows of original = columns of transpose
20                System.out.print(mat[i][j] + " ");
21            }
22            System.out.println();
23        }
24    }
25 }
26
```

33  
123  
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789

Output:

1 4 7  
2 5 8  
3 6 9

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Two Sum - Lee X Spiral Matrix X chatgpt - Search X Rotate matrix X java compiler X 43wvmqr6u X 16\_sept[1].pdf X

https://onecompiler.com/java/43wvmqr6u

OneCompiler

LOGIN

Main.java + 43wvmqr6u

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```
        for (int row = N - 1; row >= 0; row--) {  
            result.add(mat[row][col]);  
        }  
    }  
  
    for (int i = 0; i < result.size(); i++) {  
        System.out.print(result.get(i));  
        if (i < result.size() - 1) System.out.print(" ");  
    }  
}  
  
public static void main(String[] args) {  
    Scanner sc = new Scanner(System.in);  
  
    int N = sc.nextInt();  
    int M = sc.nextInt();  
  
    int[][] mat = new int[N][M];  
    for (int i = 0; i < N; i++) {  
        for (int j = 0; j < M; j++) {  
            mat[i][j] = sc.nextInt();  
        }  
    }  
  
    waveTraversal(mat, N, M);  
}
```

1 2 3 4  
5 6 7 8  
9 10 11 12

Output:  
1 5 9 10 6 2 3 7 11 12 8 4

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