TRANSPOSE MATRIX

Code:

```
2
      package com.mycompany.transposematrix;
 3
      public class TransposeMatrix {
 4
 5
   public static void main(String[] args) {
 6
 7
              int[][] matrix1={{1,2,3,4},{5,6,7,8},{9,10,11,12}};
              int[][] matrix2=new int[4][3];
              for (int i=0; i<3; i++) {
   自
                   for (int j=0; j<4; j++) {
10
                       System.out.print(matrix1[i][j]+"\t");
11
12
                   System.out.println();
13
14
              matrix2=transpose(matrix1);
   口
              for(int i=0; i<4; i++){
   for (int j=0; j<3; j++) {
17
18
                       System.out.print(matrix2[i][j]+"\t");
19
20
                   System.out.println();
21
22
23 🖃
          static int[][] transpose(int[][] matrix){
              int[][] trans=new int[4][3];
24
   for(int i=0; i<4; i++){
25
   for (int j=0; j<3; j++) {
26
                       trans[i][j]=matrix[j][i];
27
28
29
30
              return trans;
31
32
```

Output:

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