```
#include <stdio.h>
int main() {
    int a[10][10], transpose[10][10];
    int rows, cols;
   printf("Enter number of rows and columns: ");
    scanf("%d %d", &rows, &cols);
   printf("\nEnter elements of the matrix:\n");
   for (int i = 0; i < rows; i++) {
        for (int j = 0; j < cols; j++) {
            printf("a[%d][%d] = ", i, j);
            scanf("%d", &a[i][j]);
    }
    for (int i = 0; i < rows; i++) {
        for (int j = 0; j < cols; j++) {
            transpose[j][i] = a[i][j];
```

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transpose[j][i] = a[i][j];
    }
}
printf("\nOriginal Matrix:\n");
for (int i = 0; i < rows; i++) {
    for (int j = 0; j < cols; j++) {
        printf("%d\t", a[i][j]);
    printf("\n");
}
printf("\nTranspose of the Matrix:\n");
for (int i = 0; i < cols; i++) {
    for (int j = 0; j < rows; j++) {
        printf("%d\t", transpose[i][j]);
    }
    printf("\n");
return 0;
```

```
Enter number of rows and columns: 3
3
Enter elements of the matrix:
a[0][0] = 1
a[0][1] = 2
a[0][2] = 3
a[1][0] = 4
a[1][1] = 5
a[1][2] = 6
a[2][0] = 7
a[2][1] = 8
a[2][2] = 9
Original Matrix:
       3
   2
   5 6
7 8 9
Transpose of the Matrix:
   4
       7
1
   5
2
       8
3
    6 9
```