

TRANSPOSE

```
        /****      Program to Transpose a 2-D Array      ****/  
  
#include <stdio.h>  
  
void transpose();  
  
int a[10][10], b[10][10], m, n;  
  
main()  
{  
    int i, j;  
  
    printf("\nEnter number of rows & cols: ");  
    scanf("%d%d", &m, &n);  
  
    printf("\nEnter elements of 2-D array:\n");  
    for(i=0; i<m; i++)  
        for(j=0; j<n; j++)  
            scanf("%d", &a[i][j]);  
  
    printf("\n\n2-D array before transposing:\n\n");  
    for(i=0; i<m; i++)  
    {  
        for(j=0; j<n; j++)  
            printf("\t%d", a[i][j]);  
        printf("\n\n");  
    }  
  
    transpose();  
  
    printf("\n\n2-D array after transposing:\n\n");  
    for(i=0; i<n; i++)  
    {  
        for(j=0; j<m; j++)  
            printf("\t%d", b[i][j]);  
        printf("\n\n");  
    }  
    getch();  
}
```

```
void transpose()
{
    int i, j;

    for(i=0; i<m; i++)
        for(j=0; j<n; j++)
            b[j][i] = a[i][j];
}
```

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