

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    int a[5][5], r, c, i, j;
```

```
    printf("\n Enter the number of rows and columns of the matrix ");
```

```
    scanf("%d %d", &r, &c);
```

```
    printf("Enter the elements of the matrix\n");
```

```
    for(i=0; i<r; i++)
```

```
    {
```

```
        for(j=0; j<c; j++)
```

```
            scanf("%d", &a[i][j]);
```

```
    }
```

```
    printf("The matrix before transpose is\n");
```

```
    for(i=0; i<r; i++){
```

```
        printf("\n");
```

```
        for(j=0; j<c; j++)
```

```
            printf("%d\t", a[i][j]);
```

```
    }
```

```
    printf("\n The matrix after transpose is\n");
```

```
    for(i=0; i<r; i++){
```

```
        printf("\n");
```

```
        for(j=0; j<c; j++)
```

```
            printf("%d\t", a[j][i]);
```

```
    }
```

```
    return 0;
```

```
}
```