```
#include <iostream>
using namespace std;
int main()
int r,i,j,count;
      count=0;
int oned[50];
      cout<<"Enter the order of the upper triangular square matrix: "<<endl;</pre>
      int arr[r][r];
      cout<<"Enter element arr["<<i<<"]["<<j<<"] of matrix: "<<endl;
cin>>arr[i][j];
                            arr[i][j]=0;
      cout<<"The Matrix is:\n\n";</pre>
       for(i=0;i<r;i++)
{
    for(j=0;j<r;j++)
    {
                     cout<<arr[i][j]<<"\t";</pre>
              cout<<"\n";
       cout<<"\n\n";
      oned[k]=arr[i][j];
      int m,n,index;
     index = ((r*m)+n-(m*(m+1)/2));
cout<<"\nThe element "<<arr[m][n]<<" is present in location "<<index<<endl;</pre>
```

```
dse100@telnet:~/week2$ ./a.out
Enter the order of the upper triangular square matrix:
Enter element arr[0][0] of matrix:
Enter element arr[0][1] of matrix:
Enter element arr[0][2] of matrix:
Enter element arr[1][1] of matrix:
Enter element arr[1][2] of matrix:
Enter element arr[2][2] of matrix:
The Matrix is:
        2
       4
       0
               6
The following Matrix can be mapped to a 1D array as follows:
                              5
                                       6
Enter the rowno and colno of the element you want to retrive: 0 2
The element 3 is present in location 2
```