**#include<iostream>**

**using namespace std;**

**int i, n, x;**

**int myarray[100];**

**void insertdata()**

**{**

**cout<<"How many values ";**

**cin>>n;**

**cout<<"Enter values "<<endl;**

**for( i=0; i<n; i++)**

**{**

**cin>>x;**

**myarray[i]=x;**

**}**

**}**

**void binarysearch()**

**{**

**int searchkey;**

**int minpos=0, midpos, maxpos=n-1;**

**cout<<"Enter search key ";**

**cin>>searchkey;**

**while(true)**

**{**

**midpos=(minpos+maxpos)/2;**

**if(minpos>maxpos)**

**{**

**cout<<"Cant be found";**

**break;;**

**}**

**if(searchkey==myarray[midpos])**

**{**

**cout<<myarray[midpos]<<" found at position "<<midpos;**

**break;**

**}**

**else if((searchkey>myarray[midpos]))**

**minpos=midpos+1;**

**else**

**maxpos=midpos-1;**

**}**

**}**

**int main()**

**{**

**insertdata();**

**binarysearch();**

**return 0;**

**}**