#include<iostream>

using namespace std;

int main()

{

int arr[10] = {100,34,21,105,99,87,73,10,5,50};

int x, y;

//Ascending order bubble sorting

for(x = 0; x < 10; x++) //for passing

{

int flag = 0; //flag for reducing swapping after sort

for(y = 0; y < 10 - 1 ; y++) //for swapping

{

if(arr[y] > arr[y+1]) //checking greater element

{

swap(arr[y],arr[y+1]);

flag = 1;

}

}if(flag == 0)

break;

}

for(y = 0; y < 10; y++) //printing

cout << endl << arr[y];

int key = 99;

int low, mid, high;

low = 0;

high = 10 - 1;

mid = (low+high)/2;

while (low <= high)

{

if(arr[mid] < key)

low = mid + 1;

else if (arr[mid] == key)

{

cout << endl << key << " Found at loc " << mid;

break;

}

else high = mid - 1;

mid = (low + high)/2;

}

if(low > high)

cout << "\nNot found " << key;

return 0;

}

/\*\*

ass

inp : 100,34,21,105,99.87.73.10.5.50;

key 99;

first sort it then perform bin search\*\*/