**Binary Search in C++**

#include<iostream>

using namespace std;

int main()

{

int i, arr[10], num, first, last, middle;

cout<<"Enter 10 Elements (in ascending order): ";

for(i=0; i<10; i++)

cin>>arr[i];

cout<<"\nEnter Element to be Search: ";

cin>>num;

first = 0;

last = 9;

middle = (first+last)/2;

while(first <= last)

{

if(arr[middle]<num)

first = middle+1;

else if(arr[middle]==num)

{

cout<<"\nThe number, "<<num<<" found at Position "<<middle+1;

break;

}

else

last = middle-1;

middle = (first+last)/2;

}

if(first>last)

cout<<"\nThe number, "<<num<<" is not found in given Array";

cout<<endl;

return 0;

}

