# Om Jadhav (21CO050)

#GoogleAppEngine\_BinarySearch

#include <iostream>

using namespace std;

int main()

{

int n;

cout<<"Enter the size of array =>";

cin>>n;

int arr[n];

cout<<"Enter "<<n<<" Integers in ascending order => \n";

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

cin>>arr[i];

int target;

cout<<"Enter the number you want to search => ";

cin>>target;

int start = 0, end = n-1, mid;

int pos= -1;

while(start<=end)

{

mid = (start+end)/2;

if(arr[mid]==target){

pos = mid;

break;

}

else if(arr[mid]>target)

end = mid -1;

else

start = mid + 1;

}

if(pos==-1)

cout<<target<<" is not present in the array"<<endl;

else

cout<<target<<" is present in the array at position "<<pos<<endl;

return 0;

}

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* **OUTPUT** \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Enter the size of array =>5

Enter 5 Integers in ascending order =>

4

10

15

20

50

Enter the number you want to search => 15

15 is present in the array at position 2

=== Code Execution Successful ===