#include<iostream>

#include<algorithm>

using namespace std;

int main()

{

int n;

cin>>n;

int arr[n+2];

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

{

cin>>arr[i];

}

int key;

cin>>key;

bool present=binary\_search(arr,arr+n,key);

if(present)

{

cout<<"present"<<endl;

auto lb=lower\_bound(arr,arr+n,key);

int index=lb-arr;

cout<< " lower bound of " << key << "is at index " << index <<endl;

auto ub=upper\_bound(arr,arr+n,key);

int index1=ub-arr;

cout<<" upper bound of " << key << " is at index " << index1 <<endl;

int frequency;

frequency=ub-lb;

cout<<" element " << key << " has appeared " << frequency << " times "<<endl;

}

else

cout<<"element is absent"<<endl;

}