#include <iostream>

using namespace std;

int main()

{

int t;

cout<<"Enter number of test cases\n";

cin>>t;

while(t>0)

{

int n,key,count=0,flag=0;

int A[30];

cout<<"Enter size of array\n";

cin>>n;

cout<<"Enter elements in the array\n";

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

cin>>A[i];

cout<<"Enter key to be searched\n";

cin>>key;

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

{

count++;

if(A[i]==key)

{

cout<<"found\n";

flag=1;

break;

}

}

if(flag==0)

cout<<"Element not found\n";

t--;

cout<<"Number of iterations: "<<count<<endl;

}

}

