#include <iostream>

using namespace std;

int binarysearch(int a[],int l,int r,int key)

{

if(r>=l)

{

int mid=(l+r)/2;

if(a[mid]==key)

return mid;

if(a[mid]<key)

return binarysearch(a,mid+1,r,key);

if(a[mid]>key)

return binarysearch(a,l,mid-1,key);

}

return -1;

}

int main()

{

int n,i,key;

cin>>n;

int a[n];

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

cin>>a[i];

cin>>key;

cout<<binarysearch(a,0,n-1,key);

}