import java.util.\*;

import java.lang.\*;

import java.io.\*;

class Codechef

{

public static void main (String[] args) throws java.lang.Exception

{

Scanner scn = new Scanner(System.in);

System.out.println("enter the size of array");

int n = scn.nextInt();

int[] a= new int[n];

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

{

a[i]=scn.nextInt();

}

System.out.println("enter the value to search");

int r = scn.nextInt();

int l= 0;

int h= n-1;

while(h>=l)

{

int m = (l+h)/2;

if(a[m]>r)

{

h = m-1;

}

else if(a[m]<r)

{

l = m+1;

}

else

{

System.out.println("yes found");

return;

}

} System.out.println("not present in array");

}