import java.util.\*;

public class Main{

public static int binarySearch(int[] arr,int n,int k){

int left=0;

int right=arr.length-1;

while(left<=right){

int mid=(left+right)/2;

if(arr[mid]==k){

return mid;

}

else if(arr[mid]<k){

left=mid+1;

}

else{

right=mid-1;

}

}

return -1;

}

public static void main(String[] args){

int [] arr={1,3,4,5,6,7};

Scanner sc=new Scanner(System.in);

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

int n=arr.length;

int k=sc.nextInt();

int result=binarySearch(arr,n,k);

if(result!=-1){

System.out.println(result);

}

else{

System.out.println("element not found");

}

}

}