package day6;

import java.util.HashMap;

import java.util.Scanner;

public class Contains\_Duplicate2 {

public static boolean containsNearbyDuplicate(int[] nums, int k) {

HashMap<Integer, Integer> map = new HashMap<Integer, Integer>();

for(int i=0; i<nums.length; i++){

if(map.containsKey(nums[i])){

int pre = map.get(nums[i]);

if(i-pre<=k)

System.out.println("true");

return true;

}

map.put(nums[i], i);

}

System.out.println("false");

return false;

}

public static void main(String [] args){

Scanner s = new Scanner(System.in);

System.out.println("Enter the length of the array:");

int length = s.nextInt();

int [] arr = new int[length];

System.out.println("Enter the elements of the array:");

for(int i=0; i<length; i++ ) {

arr[i] = s.nextInt();

}

System.out.println("Enter the target");

int t = s.nextInt();

containsNearbyDuplicate(arr,t);

}

}