JAVA TEST

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QUESTION 1
import java.util.*;
public class Marathon {
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);
int dist = sc.nextInt();
while (dist<5 || dist>8) {
System.out.println("Sorry.Choose between 5km to 8km.");
int a = sc.nextInt();
dist=a;
}
for (int i=dist;i>=0;i--) {
if (i<3 && i>0);{
System.out.println("Distance to run :"+i);
System.out.println("Almost There.");
}
if (i==0) {
System.out.println("Done for the day");
}
if (i>=3) {
System.out.println("Distance to run :"+i);
}
}
QUESTION 2
import java.util.*;
public class Profit {
public static int sum(List<Integer> list) {
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int sum1=0;
for (int i:list) {
sum1+=i;
return sum1;
}
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);
int a = sc.nextInt();
ArrayList<Integer> arr = new ArrayList<>();
ArrayList<Integer> arr1 = new ArrayList<>();
for (int i=0;i<a;i++) {
arr.add(sc.nextInt());
}
for (int i=0;i<a-1;i++) {
for (int j=i+1;j<a;j++) {
int x = sum(arr.subList(i, j));
arr1.add(x);
}
System.out.println(Collections.max(arr1));
}
}
QUESTION 3
import java.util.ArrayList;
import java.util.Scanner;
public class Treasure1 {
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);
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int a = 0, b = 0, x=0, c = sc.nextInt();
ArrayList<Integer> arr = new ArrayList<>();
for (int i=0;i<c;i++) {
arr.add(sc.nextInt());
}
for (int i=0;i<c-a;i++) {
ArrayList<Integer> arr1 = new ArrayList<>();
ArrayList<Integer> arr2 = new ArrayList<>();
for (int j=i+1;j<c;j++) {
arr1.addAll(arr.subList(i, j));
}
for (int k:arr) {
if (arr1.contains(k)) {
int z = 0;
}
else
arr2.add(k);
}
int a1=0,a2=0;
for (int p:arr1) {
a1+=p;
}
for (int q:arr2) {
a2+=q;
}
if (a1==a2) {
χ++;
}
a1=0;a2=0;
```

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}
if (x>0) {
System.out.println("true");
}
else
System.out.println("false");
}
QUESTION 4
import java.util.*;
public class Jump {
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);
int a = sc.nextInt(),c=0,j=0;
ArrayList<Integer> b = new ArrayList<>();
for (int i=0;i<a;i++) {
b.add(sc.nextInt());
}
while (j<=a) {
if (b.get(j)<=a-j) {
j+=b.get(j);
C++;
}
}
System.out.println(c);
```

QUESTION 5

```
import java.util.*;
public class BubbleSort {
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);
int b = sc.nextInt();
String a = new String();
ArrayList<String> arr = new ArrayList<>();
for (int i=0;i<a;i++) {
arr.add(sc.next());
}
for (int i=0;i<arr.size();i++) {</pre>
for (int j=i;j<arr.size();j++) {</pre>
if (Integer.parseInt((arr.get(i)).charAt(0)) > Integer.parseInt(arr.get(j).charAt(0)) {
a=arr.get(i);
}
}
}
}
}
```