

```

1:
package kvaluentjavatest1;

import java.util.Scanner;

public class Marathonrunner {

    public static void main(String args[])
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter a starting distance (between 5km to 8km)");
        int ele;
        int a = sc.nextInt();
        ele=a;
        while(true)
        {

            if(ele>8 || ele<5)
            {
                System.out.println("Sorry, choose a starting distance (between 5km to 8km )");
                int b = sc.nextInt();
                ele = b;
            }
            else {
                ele = a;
                break;
            }
        }
        for(int i=ele;i>0;i--)
        {
            System.out.println("Distance to run: "+i);
            if(i==(ele-1))
            {
                System.out.println("Good Start Keep it up!");
            }
        }
        if(i<3)
        {

```

```
System.out.println("Almost there!");  
}  
  
}  
System.out.println("Done for the day!");  
}  
}
```

2:

```
package kvaluentjavatest1;
```

```

import java.util.ArrayList;
import java.util.Collections;
import java.util.List;
import java.util.Scanner;

public class Profitandlosses {

    static int summer(List<Integer> list)
    {
        int summers = 0;
        for(int i :list)
        {
            summers+=i;
        }

        return summers;
    }

    public static void main(String args[])
    {
        ArrayList<Integer> arr = new ArrayList<Integer>();
        ArrayList<Integer> arr1 = new ArrayList<Integer>();

        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
        for(int i=0;i<n;i++)
        {
            arr.add(sc.nextInt());
        }

        for(int i=0;i<n-1;i++)
        {
            for(int j=i+1;j<n;j++)
            {
                //System.out.println(arr.subList(i, j));
                int sums = summer(arr.subList(i, j));
            }
        }
    }
}

```

```
arr1.add(sums);  
}  
}  
  
System.out.println(Collections.max(arr1));  
arr1.sort(null);  
System.out.println(arr1);  
//System.out.println(arr1);  
}  
}
```

3:

```
package kvaluentjavatest1;
```

```

import java.util.ArrayList;
import java.util.List;
import java.util.Scanner;

public class Subsetequal {
    static int summer(List<Integer> list)
    {
        int summers = 0;
        for(int i :list)
        {
            summers+=i;
        }

        return summers;
    }

    public static void main(String args[])
    {
        int flag=0;
        ArrayList<Integer> arr = new ArrayList<Integer>();
        Scanner sc = new Scanner(System.in);
        int a = sc.nextInt();
        for(int i=0;i<a;i++)
        {
            arr.add(sc.nextInt());
        }

        for(int i=0;i<a-1;i++)
        {
            ArrayList<Integer> arr1 = new ArrayList<Integer>();
            ArrayList<Integer> arr2 = new ArrayList<Integer>();

            for(int j=i+1;j<a;j++)
            {
                arr1.addAll(arr.subList(i, j));
            }
            for(int i1:arr)
            {
                if(arr1.contains(i1))
                {
                    //
                }
            }
        }
    }
}

```

```

    }
    else {
        arr2.add(i1);
    }
}
if (summer(arr1)==summer(arr2))
{
    flag=1;
}

}
}
if(flag==1)
{
    System.out.println("true");
}
else {
    System.out.println("false");
}

}
}

```

4:

```

package kvaluentjavatest1;

public class Numberofjumps {

```

```
public static void main(String args[])
{
    /*
    //int [] arr = new int[5];

    int flag=0;
    int runner=0;
    int jumps=0;
    int curr=0;
    int cnt=0;
    int ran=arr.length;

    for(int i=0;i<arr.length;i++)
    {
        jumps=arr[i];
        if(jumps>1)
        {
            int maxel=0;
            for(int j=1;j<jumps;j++)
            {
                if(arr[j]>(arr.length-i))
                {
                    flag=1;
                    //cnt++;
                }
                else {
                    if(maxel<arr[j])
                    {
                        maxel=arr[j];
                        //cnt++;
                    }
                }
            }
        }
        else {
            ran-=1;
            cnt++;
        }
    }
    System.out.println(cnt);
```

```

*/
int arr[] = {1,3,5,8,9,2,6,7,6,8,9};
int runner=0;
int i=0;
int cnt=1;

while(true)
{
runner=arr[i];
int maxel=0;
int jp=0;
if(i+arr[i]<arr.length)
{
    jp=i+arr[i];
}
else{
break;
}
for(int j=i; j<i+arr[i];j++)
{
    if(arr[j] > maxel)
    {
        maxel=arr[j];
    }
}
i+=maxel;
if(i>arr.length)
{
break;
}
cnt+=1;
}
System.out.println(cnt);

```

```

/*
while(true)
{
jumps=arr[runner];

```



```
if(jumps>=arr.length)
{
System.out.println(cnt);
flag=1;
}
else {
for(int i=0;i<jumps;i++)
{

}
}

}
/*
if(flag==0)
{
System.out.print(-1);
}
*/
```

```
}
```

```
}
```

5:

```
package kvaluentjavatest1;
```

```
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Scanner;
```

```

public class Lexicographysort {
/*
static String[] lexisort(String a[])
{

for(int i=0;i<a.length;i++)
{
for(int j=1;j<a.length-1;j++)
{
if(a[j-1].compareTo(a[j])>0)
{
String temp = a[j-1];
a[j-1]= a[j];
a[j] = temp;

}
}
}
return a;
}
*/
public static void main(String args[])

{
Scanner sc = new Scanner(System.in);
int n = 8;
ArrayList<String> a = new ArrayList<String>(n);
//String skip = sc.next();
for(int i=0;i<n;i++)
{
a.add(sc.nextLine());
}
a.sort(null);
//lexisort(a);
System.out.println(a);
}
}

```

