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17 Questions

Total Marks: 252.0

15 Multiple Choice Questions

1. Which of these statements about the following Java code are ... + 6.0

2. Which of the following statements about threads in java are ... + 6.0

3. In java, which of the following declarations is used to inst... + 2.0

4. In object-oriented programming, which of the following is an... + 4.0

5. What is the output of the following java code: + 4.0

6. What is the output of the following + 6.0

Question 1

Max. Marks 6.00

Which of these statements about the following Java code are valid:

Code

```
public class HackerEarth
{
    protected void finalize()
    {
        System.out.println("Coding!");
    }

    public static void main(String[] args)
    {
        HackerEarth hacker = new HackerEarth();
        hacker = null;
        System.gc();
    }
}
```

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6. What is the output of the following + 6.0

Statements

1. finalize() function is called

2. finalize() can or cannot be called

3. Garbage collection can or cannot run

4. Garbage collection runs

☐ 1 and 3

☐ 2 and 3

☒ 1 and 4

☐ 2 and 4

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+ 4.0

5. What is the output of the following java code:

+ 4.0

6. What is the output of the following

+ 6.0

Question 2

Max. Marks 6.00

Which of the following statements about **threads** in Java are correct:

1. The multithreading mechanism in Java uses the polling method.

2. Each object has its own, implicit monitor that is automatically entered when one of the object's synchronized methods is called.

3. A thread can be created by creating a class that extends the runnable interface.

4. A reference is made to the main thread by calling the `currentThread()` method.

☐ 1, 2, and 3

☐ 1 and 2

☒ 2 and 4

☐ None of these

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+ 4.0

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+ 6.0

Question 3

Max. Marks 2.00

In Java, which of the following declarations is used to instantiate a **thread** object by using a constructor?

☐ Thread(String threadName, Runnable threadObj);

☐ Thread(Runnable threadObj, String threadName);

☐ Thread(Run threadObj, String threadName);

☒ Thread(Runnable threadName, String threadObj);

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Question 4 Max. Marks 4.00

In object-oriented programming, which of the following is an example of static polymorphism?

☐ Operator overloading

☐ Function overloading

☐ Templates

☒ All of these

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Question 4 Max. Marks 4.00

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☐ Operator overloading

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☐ Templates

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7. In an operating system, which of the following statements co... +2.0

8. In process scheduling, which of the following statements abo... +2.0

```
}

public void proc3()
{
    System.out.println("PHP");
}

class MainClass
{
    public static void main(String arg[])
    {
        HackerEarth ob = new HackerEarth();
        ob.proc1();
        ob.proc2();
        ob.proc3();
    }
}
```

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☐ Python Java PHP

☒ Compilation error

☐ Runtime error

☐ Program runs but with no output

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Question 7

Max. Marks 2.00

In an operating system, which of the following statements correctly defines the turnaround time in the process scheduling activity?

☐ It is the time a process spends waiting in the kernel's ready queue.

☒ It is the time elapsed until the completion of a process.

☐ It is the time elapsed from the period where a request was first submitted until first response is produced.

☐ It is the time taken by a process to enter the ready state from the waiting state.

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+ 4.0

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9. Based on the values in the following table, determine the

+ 6.0

10. In java, which of the following statements about variables a...

+ 6.0

Question 8

Max. Marks 2.00

In process scheduling, which of the following statements about the aging technique is correct?

☒ It is a technique of gradually increasing the priority of processes that are waiting from a long time.

☐ It is a technique to keep a track of the data that is currently residing in memory.

☐ It is a technique to keep a track of the number of times a given page is referenced.

☐ It is a technique to keep a track of cache contents.

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11. In Java 8, which of the following statements about the lambd... +4.0

12. What is the output of the following Java code: +4.0

13. In Java, which of the following +4.0

Question 12

Max. Marks 4.00

What is the output of the following Java code:

```
class HackerEarth
{
    static String strVal;
    public static void main(String[] args)
    {
        HackerEarth h1 = new HackerEarth();
        strVal = h1.getString("Program");
        System.out.print(" "+strVal);
    }

    public static String getString(String str){

        StringBuffer strBuf = new StringBuffer(str.length());

        for(int i=str.length() -1 ; i>0;i--)
        {
            strBuf.append(str.charAt(i));
        }
    }
}
```

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☐ Runtime error

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public static String getString(String str){

 StringBuffer strBuf = new StringBuffer(str.length());

 for(int i=str.length() -1 ; i>0;i--)
 {
 strBuf.append(str.charAt(i));
 }
 return strBuf.toString();
 }
}

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13. In Java, which of the following statements about instance va...

+ 4.0

14. In Java 8, which of the following statements about the garba...

+ 2.0

15. In Java, which of the following garbage collectors work conc...

+ 4.0

Question 13

Max. Marks 4.00

In Java, which of the following statements about instance variables are correct:

1. Instance variable of type boolean defaults to false

2. Instance variable of type boolean defaults to true

3. Instance variable of type int defaults to 0

4. Instance variable of type int defaults to null

☒ 1 and 3

☐ 1 and 4

☐ 2 and 3

☐ 2 and 4

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Question 14

Max. Marks 2.00

In Java 8, which of the following statements about the garbage collection process is correct:

1. Unused packages in a program are automatically deleted.

2. The memory occupied by objects with no reference is automatically reclaimed for deletion.

3. Java deletes all unused java files on the system.

4. The JVM cleans the output of a Java program.

☒ 2

☐ 1 and 3

☐ 1 and 4

☐ 2 and 4

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12. What is the output of the following java code: + 4.0

13. In Java, which of the following statements about instance va... + 4.0

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15. In Java, which of the following garbage collectors work conc... + 4.0

2 Programming Questions

16. Find The Sequence + 100.0

17. Circle in a Tree <Recruit RFU> + 90.0

Question 15

Max. Marks 4.00

In Java, which of the following garbage collectors work concurrently with the application:

1. Serial

2. Concurrent Mark Sweep (CMS)

3. Parallel

4. Garbage First (G1)

☐ 1 and 2

☐ 3 and 4

☐ 1 and 3

☒ 2 and 4

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Question 16

Max. Marks 100.00

Find The Sequence

You are given an array A consisting of N integers. For every index i ($1 \leq i \leq N$) of the array, you need to find the maximum length of the good sub-array starting from that index.

A good sub-array of A is a sequence A_l, A_{l+1}, \dots, A_r for some integers (l, r) such that $1 \leq l \leq r \leq N$ and the difference between two consecutive elements in that sub-array will be exactly K . In other words $A[i] = A[i-1] + K$. A single element is considered as a good sub-array.

Input Format

First line contains T , denoting number of test cases.

Every case starts with a number N , denoting number of integers in the array.

Next line contains N integers $A[1], A[2], \dots, A[N]$ separated by spaces.

Next line contains an integer K .

Output Format

Print N integers separated by single space where i^{th} integer is maximum length of the good subarray for index i in the given array.

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You have to form a circle of maximum radius and output the center of the circle along with the maximum radius. If multiple nodes have maximum radius, then output the node with lesser value.

Input Format:

First line of Input consists of number of test cases T .
First line of each test case consists of an integer N .
Each of the next $N - 1$ lines contains two space separated integers u and v denoting the edges of the binary tree. Here u is the parent and v is the child.

Output Format:

For each test case, output a single line consisting of two space separated integers, Center Node C and the maximum radius.

Input Constraints:

$$1 \leq T \leq 100$$
$$1 \leq N \leq 10000$$
$$1 \leq u, v \leq N$$

Sample Input

```
1
7
```

Sample Output

```
2 1
```

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Input Constraints:

$$1 \leq T \leq 100$$
$$1 \leq N \leq 10000$$
$$1 \leq u, v \leq N$$

Sample Input

```
1
7
1 2
1 3
2 4
2 5
4 6
4 7
```

Sample Output

```
2 1
```

Explanation

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1

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Explanation

```
graph TD; 1((1)) --> 2((2)); 1 --> 3((3)); 2 --> 4((4)); 2 --> 5((5)); 4 --> 6((6)); 4 --> 7((7));
```

Circle with Center 1 has radius 0 (as 1 has no point above it) and point lying on circle is 1 itself.
Circle with Center 2 has radius 1 and points lying on circle are 1, 4, 5. Note that points 3,6 can not make a circle as 3 is not an ancestor of 2.
Circle with Center 3 has radius 0 (as 3 has no children) and point lying on circle is 3 itself.

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```
graph TD; 6((6)); 7((7));
```

Circle with Center 1 has radius 0 (as 1 has no point above it) and point lying on circle is 1 itself.
Circle with Center 2 has radius 1 and points lying on circle are 1, 4, 5. Note that points 3,6 can not make a circle as 3 is not an ancestor of 2.
Circle with Center 3 has radius 0 (as 3 has no children) and point lying on circle is 3 itself.
Circle with Center 4 has radius 1 and points lying on circle are 2, 6, 7.
Circle with Center 5 has radius 0 and point lying on circle is 5 itself.
Circle with Center 6 has radius 0 and point lying on circle is 6 itself.
Circle with Center 7 has radius 0 and point lying on circle is 7 itself.
Therefore the output is Circle with Center Node 2 and maximum radius 1.

Note: Your code should be able to convert the sample input into the sample output. However, this is not enough to pass the challenge, because the code will be run on multiple test cases. Therefore, your code must solve this problem statement.

Time Limit: 2.0 sec(s) for each input file
Memory Limit: 256 MB
Source Limit: 1024 KB
Marking Scheme: Marks are awarded if any testcase passes
Allowed Languages: Java, Java 8

New Submission

All Submissions