Week 7 Pre-reading quiz

Test your Knowledge for Week 7!

Question 1 Submitted Apr 14th 2022 at 1:02:12 pm

I want to discover how many integers between 1 and 1 million inclusive are divisible by 7 or 19 but not divisible by both. What kind of loop pattern is **most** appropriate?

• Counter controlled
Sentinel controlled
○ Value controlled
More than one of the above
Question 2 Submitted Apr 14th 2022 at 1:02:24 pm
I want to discover what integer I need to go up to, starting from 1 incrementing by 1, to find 1000 integers divisible by 7 or 19 but not divisible by both. The loop must stop after 2000 iterations. What kind of loop pattern is most appropriate?
Counter controlled
• Sentinel controlled
○ Value controlled
More than one of the above

Question 3 Submitted Apr 14th 2022 at 1:02:37 pm

If you want to find the sum of all the numbers in an array of integers, what type of Java loop is **most** appropriate?

do-while
while
○ for
enhanced for
Question 4 Submitted Apr 14th 2022 at 1:03:03 pm Your program needs a loop that must read a value first, process and then evaluate the stop condition What type of Java loop is most appropriate?
o do-while
enhanced for
while
o for
Question 5 Submitted Apr 14th 2022 at 1:03:24 pm Consider the following code OUTLINE:

You can assume the outer loop is meant to repeat 4 times and the inner loop is meant to repeat 9 times.

k should count the total number of times "some statements" has executed. Which of the following is the **best** code location to increment **k**?

Immediately before the outer while after declarations and initialisations
In the outer while immediately before the inner while
In the inner while immediately before the "inner loop statements"
In the inner while immediately after the "inner loop statements"
In the outer while immediately after the inner while
Immediately after the outer while
Question 6 Submitted Apr 14th 2022 at 1:04:07 pm

The following piece of code is developed to find the maximum value in an array of integers, but, it throws a **syntax error.** Which line does the error occur on?

```
int ar[]={4,3,6,7};
int max=ar[0];
int index=0;
for(int i=0;i<ar.length;i++){</pre>
        if (ar[i]>max)
        max=ar[i];
        index=max;
System.out.println("The max is ="+max+" in cell with index="+i);
```

- 9
- 2
- 7

\bigcirc 5
<u>6</u>
Question 7 Submitted Apr 14th 2022 at 1:04:18 pm If you want to print an array in reverse order, what type of Java loop is most appropriate?
• for
while
enhanced for
O do-while
Question 8 Submitted Apr 14th 2022 at 1:04:31 pm Consider the following code which was written to find the minimum element in an array of numeric type and of any length:
What is wrong with this code? You can assume any necessary declarations and initialisations have occurred.
It will not compile
n1 = v[0]; should be $n1 = 0$;
int i = 1 should be int i = 0
n1 = v[i]; should be $v[i] = n1$