



SELF QUIZ UNIT 3 CS1102

Programming 1 (University of the People)

Started on	Friday, 15 February 2019, 4:16 AM
State	Finished
Completed on	Friday, 15 February 2019, 4:21 AM
Time taken	4 mins 13 secs
Marks	6.00/7.00
Grade	85.71 out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Suppose that the first line of a subroutine definition is: `static void test(int n, double x)`.

Now consider these statements:

`test(17,42)`

`test(0.17,3.227)`

Which of those statements is a legal subroutine call?

Select one:

a. Both 1 and 2

b. 1



c. 2

d. Neither 1 nor 2

Feedback

The correct answer is: 1

Question 2

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

A program contains a switch statement that lets you test the value of an expression and, depending on that value, to jump directly to some location within the switch statement.

When compiling the program, when will a Java compiler report an error?

Select one:

a. If the value of the expression is a char, or a short.



b. If the value of the expression is a float or a double.

c. If the value of the expression is an int or byte.

d. If the value of the expression is an enum.

Feedback

The correct answer is: If the value of the expression is a float or a double.

Question 3

Correct

Mark 1.00 out of 1.00

Flag question

Question text

A "black box" has an interface and an implementation.

Which of the following statements describe interface?

Select one:

a. The interface of a black box is its connection with the rest of the world, such as the name and parameters of a subroutine.



b. The interface refers to internal workings of the black box.

c. The interface is a parameter used by the program.

d. None of the above

Feedback

The correct answer is: The interface of a black box is its connection with the rest of the world, such as the name and parameters of a subroutine.

Question 4

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What are formal parameters ?

Select one:

a. Formal parameters are found in the subroutine definition. The values of the actual parameters are assigned to the formal parameters before the body of the subroutine is executed.



b. Formal parameters are used only with GUI (graphical user interface).

c. Formal parameters are the parameters found in subroutine call statements, when the subroutine is called.

d. Formal parameters describe parameters used by the main program only.

Feedback

The correct answer is: Formal parameters are found in the subroutine definition. The values of the actual parameters are assigned to the formal parameters before the body of the subroutine is executed.

Question 5

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Here is the definition of the Pythagoras function:

```
static double Pythagoras (double x, double y) {  
    // Computes the length of the hypotenuse of a right  
    // triangle, where the sides of the triangle are x and y.  
    return Math.sqrt( x*x + y*y );  
}
```

Now, what is the result of the following statement:

totalLength = 17 + Pythagoras (12,5);

Select one:

a. 10

b. 60

c. 30



d. 35

Feedback

Your answer is correct.

The correct answer is: 30

Question 6

Correct

Mark 1.00 out of 1.00

Flag question

Question text

In which of the following examples can a `NumberFormatException` occur?

Select one:

a. When an attempt is made to convert a string into a number.



b. In the `valueOf` function of an enumerated type.

c. If an attempt is made to read from a file after all the data in the file has already been read.

d. When `TextIO.readFile` is used to open a file that does not exist.

Feedback

The correct answer is: When an attempt is made to convert a string into a number.

Question 7

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Consider the following subroutine:

```
static void showFrame(int frameNum)
```

Now study the following two statements

```
1) for (int i = 1; i <= 30; i++)  
    showFrame(i);
```

```
2) for (int play = 0; play < 10; play++) {  
    for (int i = 1; i <= 30; i++)  
        showFrame(i);  
}
```

Select the best description of statements 1) and 2):

Select one:

- a. 1) displays 29 animation frames in reverse order; 2) replays the animation 10 times.
- b. 1) displays 30 animation frames in order; 2) replays the animation 10 times.



- c. 1) displays 29 animation frames in order; 2) replays the animation 9 times.
- d. 1) displays 31 animation frames; 2) replays the animation 10 times.

Feedback

Your answer is correct.

The correct answer is: 1) displays 30 animation frames in order; 2) replays the animation 10 times.