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Graded quiz unit 3 cs 1102

Programming 1 (University of the People)

Marks 20.00/20.00 **Grade 100.00** out of 100.00 Question **1** Correct Mark 1.00 out of 1.00 Flag question **Question text** Consider the following Java declaration and assignment statement. float x = y; Which one of the following types is "y" NOT allowed to be? Select one: \circ a. short \circ b. float (0) C. double \circ d. long \circ e. int Feedback Your answer is correct. Java automatically converts values from short, int, and long to float. It does not automatically convert double to float. See Section 2.5.6 of Eck (2014).The correct answer is: double Question **2** Correct Mark 1.00 out of 1.00

Flag question

Question text

```
equivalent to "test == false"?
Select one:
\circ
a.
test = true
b.
test.equals(true)
\Box
C.
test
(
d.
!test
Feedback
Your answer is correct.
See Section 3.3.2 of Eck (2014).
The correct answer is: !test
Question 3
Correct
Mark 1.00 out of 1.00
             Flag question
Question text
Consider the following block of Java code. How many times will it output
"Hello"?
for (int i = 1; i < 10; i--)
   System.out.println("Hello");
Select one:
\mathbb{C}
a.
0
\circ
b.
9
\circ
C.
1
```

Assume "test" is a boolean variable. Which of the following expressions is

Cl d. 10

 \odot

e. Way too many!

Feedback

Your answer is correct.

Notice the update, "i--". "i" starts less than 10 and just keeps getting smaller. (The loop is technically not infinite. "i" will eventually reach the most-negative value that "int" can represent, and then it will wrap around to the largest possible "int", ending the loop.) See Section 3.4.1 of Eck (2014).

The correct answers are: 1, Way too many!

Question **4**Correct

Mark 1.00 out of 1.00

Flag question

Question text

Which of the following keywords is useful for skipping to the next iteration of a loop?

Select one:

 \bigcirc

a.

while

(

b.

continue

 \mathbb{C}

C.

switch

 \circ

d.

do

 \bigcirc

e.

break

Feedback

Your answer is correct.

See Section 3.3.3 of Eck (2014).

The correct answer is: continue

```
Question 5
Correct
Mark 1.00 out of 1.00
             Flag question
Question text
Consider the following class definition. Which variables can be used in the
missing "println" expression on line 20?
public class PrintStuff
2 {
3
     public static void main()
4
6
        {
7
           int i = -1;
8
           System.out.println();
9
10
        int j = 1;
11
         for (j = 0; j < 10; j++) {
12
           System.out.println( );
13
         }
14
         {
           int k;
15
           for (k = 0; k < 10; k++) {
16
             System.out.println(____);
17
18
19
20
        System.out.println(____);
21
22 }
Select one:
(
a.
Only "j"
\mathbb{C}
b.
Only "k"
\circ
С.
"j" and "k"
\mathbb{C}
d.
Only "i"
\circ
```

```
Feedback
Your answer is correct.
"i" and "k" are no longer in scope. Only "j" is still in scope. See Section
3.1.1 of Eck (2014).
The correct answer is: Only "j"
Question 6
Correct
Mark 1.00 out of 1.00
            Flag question
Question text
Consider the following line of Java code.
System.out.println("Hello, World!");
"Hello ,World" is which of the following?
Select one:
\bigcirc
a.
a class
\circ
b.
a method (subroutine)
\circ
C.
an object
(
d.
a parameter
\circ
e.
a statement
Feedback
Your answer is correct.
"Hello, World!" is a parameter passed to the method "println". See
Section 2.2.5 of Eck (2014).
The correct answer is: a parameter
Question 7
Mark 1.00 out of 1.00
```

"i" and "j"

Flag question Question text In a for loop, how many times does the continuation condition run? Select one: (a. At least once, at the beginning of each iteration. \circ b. Zero or more times, at the end of each iteration. \circ C. At least once, at the end of each iteration. d. Exactly once. \circ e. Zero or more times, at the beginning of each iteration. Feedback Your answer is correct. See Section 3.4.1 of Eck (2014). The correct answer is: At least once, at the beginning of each iteration. Question 8 Correct Mark 1.00 out of 1.00 Flag question **Question text** What is output by the following Java program? class Compute { static int compute() { return 42; } static int compute(int i) { return i+1; } public static void main(String[] args) { System.out.println(compute(compute(0)));

}

```
Select one:
a.
a.
b.
42
c.
d.
d.
43
c.
1
```

Feedback

Your answer is correct.

The inner call to "compute" has an argument, so it uses the second method definition, which returns 0+1, or 1. This 1 becomes the argument to the outer call, which then returns 1+1, or 2. The first definition of "compute" is never used. See Section 4.3.3 of Eck (2014).

The correct answer is: 2

```
Question 9
Correct
Mark 1.00 out of 1.00

Flag question
Question text
Consider the following Java method, which term best describes
"'System.out.println("Hello, World!")"?

public static void main(String[] args) {
    System.out.println("Hello, World!");
}

Select one:
Cl
a.
return type
Cl
```

b. formal parameter \circ C. actual parameter or argument \bigcirc d. modifier (method call Feedback Your answer is correct. See Sections 2.1 and 4.2.2 of Eck (2014). The correct answer is: method call Question **10** Correct Mark 1.00 out of 1.00 Flag question Question text Which of the following types is NOT a primitive type? Select one: \circ a. short \circ b. char (С. String \circ d. double \circ e. boolean Feedback

Your answer is correct.

The correct answer is: String

```
Question 11
Correct
Mark 1.00 out of 1.00
```

Flag question

Question text

Consider the following Java program:

```
1 public class HelloWorld {
2     // My first program!
3     public static void main(String[] args) {
4          System.out.println("Hello, World!");
5     }
6 }
```

What starts on line 4?

Select one:

 \circ

a.

a method (subroutine) definition

(

b.

a statement

 \mathbb{C}

C.

a variable declaration

 \mathbb{C}

d.

a class definition

 \bigcirc

e.

a comment

Feedback

Your answer is correct.

See Section 2.1 of Eck (2014).

The correct answers are: a statement, a class definition

Question **12**Correct
Mark 1.00 out of 1.00

asynchronous events?

Select one:

a.
event handlers

b.
protocols

c.
short circuits

d.
reserved words

e.
pragmatics

Question text

Feedback

Your answer is correct.

The correct answer is: event handlers

Flag question

Which one of the following is used in Java programming to handle

```
Question 13
Correct
Mark 1.00 out of 1.00

Flag question
Question text
```

Consider the following Java program:

```
1 public class HelloWorld {
2     // My first program!
3     public static void main(String[] args) {
4          System.out.println("Hello, World!");
5     }
6 }
```

What starts on line 1?

```
Select one:
\circ
a.
a comment
\mathbb{C}
b.
a statement
\circ
a method (subroutine) definition
d.
a class definition
e.
a variable declaration
Feedback
Your answer is correct.
See Section 2.1 of Eck (2014).
The correct answer is: a class definition
Question 14
Correct
Mark 1.00 out of 1.00
            Flag question
Question text
Consider the following Java program:
1 public class HelloWorld {
      // My first program!
       public static void main(String[] args) {
3
            System.out.println("Hello, World!");
5
6 }
What is on line 3?
Select one:
a class definition
\mathbb{C}
b.
```

```
a comment
C
c.
a variable declaration
C
d.
a statement
e
e.
a method (subroutine) definition
```

Feedback

Your answer is correct.

See Section 2.1 of Eck (2014).

The correct answers are: a method (subroutine) definition, a class definition

```
Question 15
Correct
Mark 1.00 out of 1.00

Flag question
```

Question text

20

1. Consider the following class definition. Which variables can be used in the missing "println" expression on line 12? 1 public class PrintStuff 2 { 3 public static void main() 4 6 { 7 int i = -1; 8 System.out.println(); 9 int j = 1; 10 11 for (j = 0; j < 10; j++) { 12 System.out.println(); 13 } 14 { 15 int k; for (k = 0; k < 10; k++) { 16 17 System.out.println(____); 18 19

System.out.println();

```
21 }
      22 }
Select one:
\circ
a.
   1. Only "i"
\circ
b.
Only "k"
\mathbb{C}
"j" and "k"
\circ
d.
"i" and "j"
(
e.
Only "j"
Feedback
Your answer is correct.
"i" is no longer in scope. "k" has not been declared yet. See Section 3.1.1
of Eck (2014).
The correct answer is: Only "j"
Question 16
Correct
Mark 1.00 out of 1.00
             Flag question
Question text
Which of the following can a class NOT be used for?
Select one:
\circ
a container for static methods (subroutines)
\circ
b.
a container for static variables
0
C.
```

```
a primitive type
\circ
d.
a type for method parameters
\bigcirc
e.
a type for variables
Feedback
Your answer is correct.
Primitive types are not classes. See Section 2.3 of Eck (2014).
The correct answer is: a primitive type
Question 17
Correct
Mark 1.00 out of 1.00
            Flag guestion
Question text
Consider the following Java method, which term best describes "static"?
public static void main(String[] args) {
     System.out.println("Hello, World!");
Select one:
a.
actual parameter or argument
\Box
h
method call
(
C.
modifier
\circ
d.
return type
\circ
e.
formal parameter
```

Feedback

Your answer is correct.

See Section 4.2.1 of Eck (2014).

The correct answer is: modifier

Question **18**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Assume that the variables "x" and "y" both have type "int". Which one of the following is NOT a boolean expression?

Select one:

0

a.

x = y

 \circ

b.

x >= y

 \bigcirc

((x > 0) && (y > 0))

 \bigcirc

d.

(x > 0)? (x > y): (x < y)

Feedback

Your answer is correct.

"x = y" is an int assignment statement. The other choices are all legal boolean expressions. See Sections 2.5.4 and 2.5.6 of Eck (2014).

The correct answer is: x = y

Question 19

Correct

Mark 1.00 out of 1.00

Flag question

Question text

In a for loop, how many times does the update run?

Select one:

 \circ

a. Exactly once. \bigcirc b. Zero or more times, at the beginning of each iteration. \circ C. At least once, at the beginning of each iteration. \circ d. At least once, at the end of each iteration. Zero or more times, at the end of each iteration. Feedback Your answer is correct. See Section 3.4.1 of Eck (2014). The correct answer is: Zero or more times, at the end of each iteration. Question 20 Correct Mark 1.00 out of 1.00 Flag question **Question text** Which of the following keywords is useful for loops that should always execute at least once? Select one: \circ a. switch \circ b. while (C. do \circ d. break \bigcirc

e.

continue

Feedback

Your answer is correct.

See Section 3.3.2 of Eck (2014).

The correct answer is: do