Question [*]	1	
Not answered		
Marked out of 1.00		
	Flag question	

Question text

Here is part of a graphics program that simulates a color fading in the sun. The amount of red starts at the maximum of 1.0 and is faded by drecreasing it by 1% each time the loop executes, until it is close to zero.

```
float redLevel = 1.0;
while ( _______ )
{
    redLevel = redLevel*0.99;

    // the new redLevel is used here in some graphics methods
    }

Pick a condition for the while statement.

Question 1Answer

a.
redLevel*redLevel < 1.0
```

redLevel*redLevel < 1.0

b.

c.
redLevel == 0.0

d.
Math.abs(redLevel) < 0.0

e. redLevel > 0.001

Question 2 Complete Marked out of 1.00		
Flag question		
Question text Which of the following is most likely to use a sentinel loop?		
Question 2Answer a.		
Asking the user at the end of a game if the user wants to play again. • b.		
Trying various letter substitution combinations until a message in a secret code can be read. C.		
Checking if a particular integer is even or odd. O d.		
Checking that each price in a list of items offered for sale is less than \$125.		
Question 3 Complete Marked out of 1.00 Flag question		
Question text Which of the following is most likely to use a counting loop?		
Question 3Answer		
a. Asking the user at the end of a game if the user wants to play again.		
b. Checking if a particular integer is even or odd. •		

C. Checking that each price in a list of items offered for sale is less than \$125. \circ d. Trying various letter substitution combinations until a message in a secret code can be read. Question 4 Complete Marked out of 1.00 Flag question Question text What will be the output of the program? int x = 3; int y = 1; if (x = y) /* Line 3 */System.out.println("x = x + x); **Question 4Answer (** a. The code runs with no output \circ b. x = 3 \circ C. x = 1d. Compilation fails Question **5**

```
Complete

Marked out of 1.00

Flag question
```

```
Flag question
                    Question text
What will be the output of the program?
boolean bool = true;
if(bool = false) /* Line 2 */
  System.out.println("a");
else if(bool) /* Line 6 */
  System.out.println("b");
else if(!bool) /* Line 10 */
  System.out.println("c"); /* Line 12 */
else
  System.out.println("d");
Question 5Answer
(
a.
b
b.
```

```
c.
a

d.
d.
e.
c
Question 6
Complete
Marked out of 1.00

Flag question
```

```
Question text
Given the following code:
public class TestSwitch {
public static void main(String args[]) {
 byte b = -1;
 switch (b) {
 case -1:
 System.out.print("-1");
 break;
 case 127:
 System.out.print("127");
 break;
 case 128:
 System.out.print("128");
 break;
 default:
 System.out.print("Default ");
```

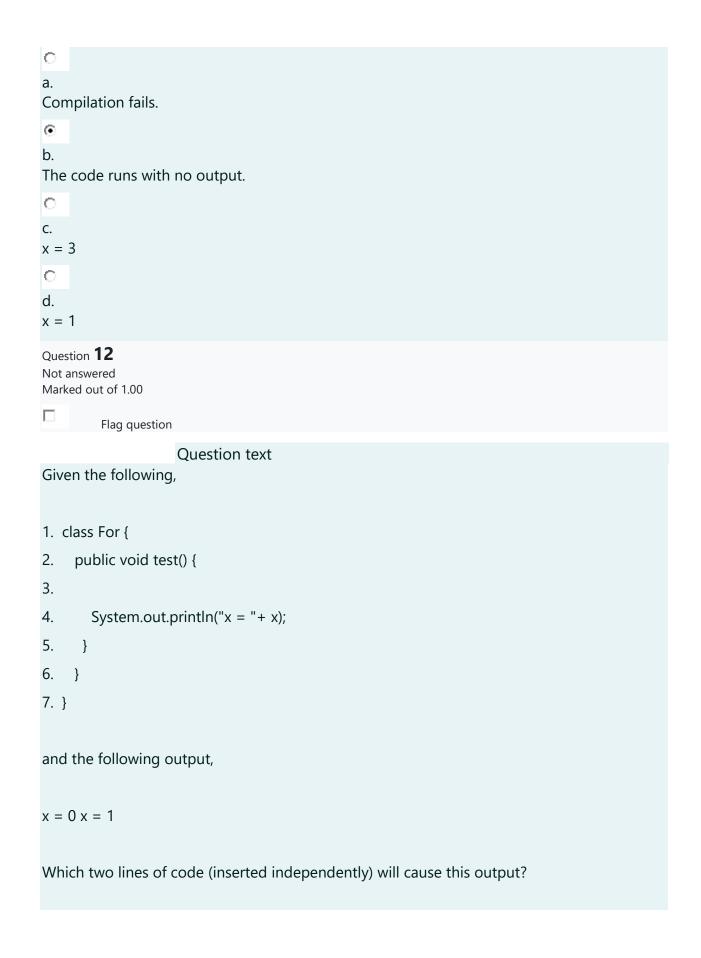
What is the result of attempting to compile and run the program?
Question 6Answer
a.
Compile-time error
0
b.
Prints: Default
•
C.
Prints: -1
d.
С
e.
Prints: 128
Question 7
Complete Marked out of 1.00
П
Flag question
Question text Chasse the correct expressions which satisfy the given table for both X and X
Choose the correct expressions which satisfy the given table for both X and Y
X Y Result
80 -97 true
95 65 true
63 -68 false
9 28 true
55 15 false
47 37 true

```
Question 7Answer
a.
(x >= 10) && (y > 25)
◉
b.
(x >= 70) || (y > 25)
C.
(x < 75) || (y > -100)
0
d.
(x >= 70) || (y > 35)
\circ
e.
Question 8
Complete
Marked out of 1.00
Flag question
                    Question text
Given the following,
11. int I = 0;
12. outer:
13. while (true) {
14. I++;
15. inner:
    for (int j = 0; j < 10; j++) {
16.
17. I += j;
18. if (j == 3)
19. continue inner;
20. break outer;
```

21. }		
22. continue outer;		
23. }		
24. System.out.println(I);		
25.		
26.		
What is the result?		
Question 8Answer		
a.		
С		
b. 4		
С		
C.		
2		
C C		
d. 3		
•		
e.		
1		
Question 9 Complete Marked out of 1.00 Flag question		
Question text		
Given the following:		
public class DoTest {		
<pre>public static void main(String[[] args) {</pre>		

```
boolean flag;
 int index = 3;
 do {
 flag = false;
 System.out.print(index);
 index--;
 flag = (index > 0);
 continue;
 } while ((flag) ? true : false);
What will be the output of above code?
Question 9Answer
O
a.
Will go into an infinite loop
\circ
b.
Compilation error
\circ
C.
3210
◉
d.
321
Question 10
Complete
Marked out of 1.00
         Flag question
                    Question text
For the code snippet:
int m = 0;
while (++m < 2)
```

```
System.out.println( m );
What is printed to standard output?
Question 10Answer
a.
2
\circ
b.
•
C.
1
\circ
d.
Nothing is printed
\circ
e.
0
Question 11
Complete
Marked out of 1.00
        Flag question
                     Question text
What will be the output of the program?
int x = 3;
int y = 1;
if (x == y) /* Line 3 */
  System.out.println("x = " + x);
Question 11Answer
```



```
a.
for (int x = -1; x < 2; ++x) {
\circ
b.
for (int x = 1; x < 3; ++x) {
C.
0
d.
for (int x = 0; x < 2; x++) {
\circ
e.
for (int x = 0; x > 2; ++x) {
Question 13
Complete
Marked out of 1.00
Flag question
                      Question text
Which of the following is a legal loop definition?
Question 13Answer
\circ
while (int a == 0) { /* whatever */ }
\circ
b.
do { /* whatever */ } while (int a = 0);
\circ
do { /* whatever */ } while (int a == 0);
•
d.
for (int a=0; a<100; a++) { /* whatever */ }
```

Question 12Answer

```
0
e.
Question 14
Complete
Marked out of 1.00
Flag question
                    Question text
Given the following:
public class TestDoWhile {
public static void main(String... args) {
 int count = 20;
 do {
 System.out.println(count);
 } while (count++ < 21);</pre>
What is the output?
Question 14Answer
a.
21
\circ
b.
20
\circ
C.
Nothing is printed
⊚
d.
20
21
Question 15
```

```
Complete
Marked out of 1.00
         Flag question
                     Question text
switch(x)
  default:
     System.out.println("Hello");
Which two are acceptable types for x?
1 byte
2 long
3 char
4 float
5 short
6 long
Question 15Answer
\circ
a.
2 and 4
(•)
b.
3 and 5
\circ
C.
1 and 3
d.
```

4 and 6

Question **16**Complete

Marked out of 1.00

Flag question

```
Question text
public void test(int x)
  int odd = 1;
  if(odd) /* Line 4 */
     System.out.println("odd");
  }
  else
  {
     System.out.println("even");
  }
Which statement is true?
Question 16Answer
"odd" will always be output.
\circ
"odd" will be output for odd values of x, and "even" for even values.
0
C.
Compilation fails.
\circ
d.
"even" will always be output.
\circ
e.
Question 17
Complete
Marked out of 1.00
```

Flag question		
Question text		
Which of the following situation most likely does NOT call for a counting loop?		
Question 17Answer		
a.		
Adding up all the integers between zero and one hundred.		
b. Prompting the user of a program until the user responds with correct information.		
C		
C.		
Writing out a table of Fahrenheit and Celcius temperature equivalents.		
d.		
e. Making the computer beep ten times.		
Question 18		
Complete Marked out of 1.00		
Flag question		
Question text Given the following:		
public class TestLoop {		
public static void main(String args) {		
int index = 2;		
while (index > 0) System out println(index):		
System.out.println(index);		
}		
What is printed to standard output?		

```
Question 18Answer
a.
Nothing is printed
0
b.
(
C.
1
\circ
d.
0
0
e.
2
Question 19
Complete
Marked out of 1.00
        Flag question
                    Question text
Given the following:
public class TestLoop {
public static void main(String... args) {
 int index = 2;
 while (index-- > 0)
 System.out.println(index);
What is printed to standard output?
Question 19Answer
```

•
a.
1
2
b.
1
0
c. Nothing is printed
C .
d.
G.
e.
1
Question 20
Complete
Marked out of 1.00
Flag question
Question text
What is the most common type of bug in software?
Question 20Answer
a.
The "off by one" problem, where a counting loop executes its body one time too many or
one time too few.
•
b.
The "unititialized variable" problem, where a variable is used in an expression before its contents have been initialized.
Contents have been initialized.

```
\circ
C.
The "wrong operator" problem, where an arithmetic expression does not mean what the
programmer thought it did.
\circ
d.
The "wrong way" problem, where a two way decision is written incorrectly.
Question 21
Complete
Marked out of 1.00
         Flag question
```

Question text

```
What will be the output of the following program?
class IfExample
  public static void main(String s[[])
     if( 1 < 2 )
       System.out.println("1 is less than 2");
     }
     else
       System.out.println("2 is less than 1");
       System.out.println("Hello From IfExample");
Question 21Answer
O
```

1 is less than 2

```
Hello From IfExample
\circ
b.
\circ
C.
1 is less than 2
•
d.
Compilation Error
\circ
e.
2 is less than 1
Question 22
Complete
Marked out of 1.00
         Flag question
                     Question text
What is the output of the below program?
public class Output {
public static void main(String[[] args) {
int x, y = 1;
 x = 10;
```

```
public class Output {

public static void main(String[[] args) {

int x, y = 1;

x = 10;

if (x != 10 && x / 0 == 0)

System.out.println ;

else

System.out.println(++y);
}

Question 22Answer

•
```

```
a.
Compilation error
\circ
b.
1
O
C.
2
\circ
d.
Runtime error owing to division by zero in if condition
Question 23
Complete
Marked out of 1.00
         Flag question
                    Question text
Given the following code:
1. public class Test1
2. {
3.
     public static void main(String[[] args)
4.
        int i=0;
5.
        while(i)
6.
7.
8.
            if(i==4) break;
9.
           i++;
10.
     }
11. }
12.}
What will be the value of i at line 11?
Question 23Answer
0
a.
```

0 b. The code will not compile c. c. 5
d. 4
Question 24 Complete Marked out of 1.00 Flag question
Question text
Choose the correct expressions which satisfy the given table for X
X Result
-68 true
-31 false
-70 true
-60 false
Question 24Answer •
a. x != -31
С
b. x < -60
c. $x > -50$
d.
x > 0

```
Question 25
Complete
Marked out of 1.00
        Flag question
                    Question text
Given the following:
public class TestLoop2 {
public static void main(String... args) {
 int count = 10;
 while (count++ < 11)
 System.out.println(count);
What is the output?
Question 25Answer
(
a.
10
Ö
b.
11
C.
Nothing is printed
\circ
d.
10
11
Question 26
Complete
Marked out of 1.00
Flag question
                    Question text
```

```
Given:
  switch(i)
    default:
       System.out.println("Hello");
  }
What is the acceptable type for the variable i?
Question 26Answer
0
a.
float
(
b.
byte
0
C.
double
0
d.
Object
Question 27
Complete
Marked out of 1.00
        Flag question
                    Question text
```

Examine the following code fragment:

```
int j = 1;
while ( j < 10 )
{
    System.out.println(j + " " );
    j = j + j%3;
}</pre>
```

```
What is output to the monitor?
Question 27Answer
a.
1 4 7 10
(
b.
124578
\circ
C.
147
\circ
d.
1258
0
e.
Question 28
Complete
Marked out of 1.00
        Flag question
                    Question text
Given the following:
public class TestIfBoolean {
public static void main(String[[] args) {
 Boolean bFlag = null;
 if (bFlag) {
```

System.out.print("A");

System.out.print("B");

System.out.print("C");

} else {

} else if (bFlag == false) {

```
What is the expected output?
Question 28Answer
a.
В
b.
C
C.
Α
(•)
d.
java.lang.NullPointerException is thrown at runtime
Question 29
Complete
Marked out of 1.00
        Flag question
                    Question text
Given the following,
1. int j = 7;
2. label:
3. if (j > 5) {
      System.out.print(" j is " + j);
4.
5.
      j--;
6.
       continue label;
7. }
What is the result?
Question 29Answer
```

```
0
a.
j is 7 j is 6
0
b.
\circ
C.
Produces no output
0
d.
j is 7
•
Compilation fails
Question 30
Complete
Marked out of 1.00
         Flag question
                     Question text
public void test(int x)
  int odd = 1;
  if(odd) /* Line 4 */
     System.out.println("odd");
  }
  else
     System.out.println("even");
Which statement is true?
```

Choose the correct answer(s) from the following:
Question 30Answer a. "even" will always be output. b. Compilation fails. c. "odd" will be output for odd values of x, and "even" for even values. d.
e. "odd" will always be output.
Question 31 Complete Marked out of 1.00 Flag question
Question text Which option completes the code to print the message as long as number is greater than 20? int number = 100; MISSING CODE { System.out.println("The number = " + number); number;
Question 31Answer

```
a.
do while (number > 20)
0
b.
if (number > 20)
\circ
for (number > 20)
d.
while (number > 20)
\circ
e.
Question 32
Complete
Marked out of 1.00
        Flag question
                    Question text
Assume that val has been defined as an int for the code below:
if (val > 4) {
System.out.println("Test A");
} else if (val > 9) {
System.out.println("Test B");
} else
System.out.println("Test C");
Which values of val will result in "Test C" NOT being printed?
Question 32Answer
\circ
a.
val < 0
0
b.
```

```
val = 0

c.

d.
4 < val < 9

e.
0 < val < 4

Question 33

Not answered
Marked out of 1.00

Flag question
```

```
Question text
public void foo( boolean a, boolean b)
  if(a)
  {
    System.out.println("A"); /* Line 5 */
  }
  else if(a && b) /* Line 7 */
  {
    System.out.println( "A && B");
  }
  else /* Line 11 */
  {
    if (!b)
     {
       System.out.println( "notB");
     }
     else
```

```
System.out.println( "ELSE" );
  }
Choose the correct answer(s) from the following:
Question 33Answer
a.
If a is false and b is true then the output is "ELSE"
0
b.
If a is false and b is false then the output is "ELSE"
\circ
C.
If a is true and b is true then the output is "A && B"
\circ
d.
If a is true and b is false then the output is "notB"
Question 34
Complete
Marked out of 1.00
         Flag question
                     Question text
What is the output of the below program?
public class IfExample {
public static void main(String[[] args) {
 int var1;
 if (var1) {
 System.out.println("Inside If Condition");
}Question 34Answer
```

0
a. Runtime error
C
b.
Inside If Condition
•
C.
Compilation error
d.
Successfully compiled
Question 35
Complete Marked out of 1.00
Flag question
Question text Which flow control mechanism determines when a block of code should run more than
once?
Question 35Answer
a.
sequence
b.
0
C.
exceptions
•
d.
iteration
e.
selection

