

CS23333-Object Oriented Programming Using Java-2023

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Status	Finished
Started	Thursday, 19 September 2024, 12:05 PM
Completed	Thursday, 19 September 2024, 12:49 PM
Duration	43 mins 46 secs
Grade	26.00 out of 35.00 (74.29%)

Question 1

Correct

Mark 1.00 out of 1.00

Flag question

What command in Java 2 SDK should be used to compile the following code contained in a file called HelloWorld.java?

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

- ☐ a. java HelloWorld.java
- ☐ b. javac HelloWorld
- ☐ c. java HelloWorld
- ☒ d. javac HelloWorld.java ✓

The correct answer is:
javac HelloWorld.java

Question 2

Correct

Mark 1.00 out of 1.00

Flag question

Which of the following is correct?

- ☐ a. 2 << 1 gives 2
- ☒ b. 8 >> 2 gives 2 ✓
- ☐ c. 4 << 2 gives 2
- ☐ d. 16 >>> 2 gives 2

The correct answer is:
8 >> 2 gives 2

Question 3

Correct

Mark 1.00 out of 1.00

[Flag question](#)

Suppose you have four int variables: x, y, z, and result.

Which expression sets the value of z to x if result has a value of 1, and the value of y to x otherwise?

- ☐ a. `x = (result == 1) : z ? y;`
- ☐ b. `x = (result == 1) : y ? z;`
- ☐ c. `x = (result == 1) ? y : z;`
- ☒ d. `x = (result == 1) ? z : y;` ✓

The correct answer is:

`x = (result == 1) ? z : y;`

Question 4

Correct

Mark 1.00 out of 1.00

[Flag question](#)

Which primitive type ranges from -2^{15} to $(2^{15})-1$?

- ☒ a. `short` ✓
- ☐ b. `byte`
- ☐ c. `int`
- ☐ d. `char`

The correct answer is:

`short`

Question 5

Incorrect

Mark 0.00 out of 1.00

[Flag question](#)

Given:

`int a = 4;`

`byte b = 0;`

Which line assigns the value of a to b?

- ☐ a. `b = a;`
- ☒ b. `b = byte(a);` ✗
- ☐ c. `b = (byte) a;`
- ☐ d. `b = byte a;`

The correct answer is:
b = (byte) a;

Question 6

Correct

Mark 1.00 out of 1.00

Flag question

Which range of values is valid for all integral types, where n is the number of bits?

- ☒ a. $-2^{(n-1)}$ to $2^{(n-1)}-1$ ✓
- ☐ b. $-2^{(n-1)}$ to $2^{(n-1)}+1$
- ☐ c. $-2^{(n-1)}$ to $2^{(n-1)}-1$
- ☐ d. $2^{(n-1)}$ to $2^{(n+1)}+1$

The correct answer is:
 $-2^{(n-1)}$ to $2^{(n-1)}-1$

Question 7

Incorrect

Mark 0.00 out of 1.00

Flag question

Which one of these lists contains only Java programming language keywords?

- ☒ a. strictfp, constant, super, implements, do ✗
- ☐ b. goto, instanceof, native, finally, default, throws
- ☐ c. class, if, void, long, int, continue
- ☐ d. byte, break, assert, switch, include

The correct answer is:
goto, instanceof, native, finally, default, throws

Question 8

Correct

Mark 1.00 out of 1.00

Flag question

What is the value of $-32 \% 6$?

- ☒ a. -2 ✓
- ☐ b. -5
- ☐ c. 5
- ☐ d. 2

The correct answer is:
-2

Question 9

Correct

Mark 1.00 out of 1.00

Flag question

Which one of the following is a short-circuit operator?

- ☐ a. ^
- ☒ b. && ✓
- ☐ c. &
- ☐ d. |

The correct answer is:
&&

Question 10

Correct

Mark 1.00 out of 1.00

Flag question

Which of the following variable initialization is invalid?

- ☒ a. byte myByte=254; ✓
- ☐ b. double myDouble=12341.509D;
- ☐ c. long myLong=45678L;
- ☐ d. int myInt = 0xFACE;

The correct answer is:
byte myByte=254;

Question 11

Correct

Mark 1.00 out of 1.00

Flag question

Which of the following is a non-primitive data type in Java?

- ☐ a. int
- ☐ b. float
- ☒ c. String ✓
- ☐ d. double

The correct answer is:
String

Question **12**

Correct

Mark 1.00 out of 1.00

Flag question

Which of the following primitive data type is an integer type?

- ☐ a. double
- ☐ b. boolean
- ☐ c. float
- ☒ d. byte ✓

The correct answer is:
byte

Question **13**

Incorrect

Mark 0.00 out of 1.00

Flag question

Given char c = 'A';

What is the simplest way to convert the character value in c into an int?

- ☐ a. `int i = (int) c;`
- ☒ b. `int i = Character.getNumericValue(c);` ✗
- ☐ c. `int i = int (c);`
- ☐ d. `int i = c;`

The correct answer is:
`int i = c;`

Question **14**

Correct

Mark 1.00 out of 1.00

Flag question

What is the numerical range of a char?

- ☒ a. 0 to 65535 ✓
- ☐ b. 0 to 32767
- ☐ c. $-(2^{15})$ to $(2^{15}) - 1$
- ☐ d. -128 to 127

The correct answer is:
0 to 65535

Question **15**

Question **15**

Correct

Mark 1.00 out of 1.00

Flag question

What will happen if you try to compile and run the following code?

```
int a = 200;
```

```
byte b = a;
```

```
System.out.println("The value of b is " + b);
```

- ☐ a. It will compile but cause an error at runtime
- ☐ b. It will compile and print The value of b is -56
- ☐ c. It will compile and print The value of b is 200
- ☒ d. Compile-time error ✓

The correct answer is:

Compile-time error

Question **16**

Correct

Mark 1.00 out of 1.00

Flag question

Which one of the following primitive type conversion is permitted implicitly without using casting?

- ☐ a. long to int
- ☒ b. float to double ✓
- ☐ c. double to long
- ☐ d. double to float

The correct answer is:

float to double

Question **17**

Correct

Mark 1.00 out of 1.00

Flag question

Why is the main() method special in Java program?

- ☐ a. The main() method must be the only static method in a program.
- ☒ b. It is where the execution of a Java program starts. ✓
- ☐ c. Every class must have a main() method.
- ☐ d. Only the main() method may create objects.

The correct answer is:

It is where the execution of a Java program starts.

Question **18**

Correct

Mark 1.00 out of 1.00

[Flag question](#)

Given the following code snippet:

```
double sum = 10.0, price=100;
```

```
sum += price>=100 ? price*1.1 : price;
```

What value is placed in sum? Choose the most appropriate answer.

- ☐ a. 90
- ☐ b. 100
- ☐ c. 110
- ☒ d. 120 ✓

The correct answer is:
120

Question **19**

Correct

Mark 1.00 out of 1.00

[Flag question](#)

Which is a reserved word in the Java programming language?

- ☒ a. native ✓
- ☐ b. subclasses
- ☐ c. method
- ☐ d. reference

The correct answer is:
native

Question **20**

Correct

Mark 1.00 out of 1.00

[Flag question](#)

Which of the following keywords is reserved but not used in Java?

- ☐ a. unsigned
- ☐ b. constant
- ☒ c. const ✓
- ☐ d. delete

The correct answer is:
const

const

Question 21

Incorrect

Mark 0.00 out of 1.00

Flag question

Which of the following is a valid declaration of String?

- ☐ a. String S2=null;
- ☐ b. String S3 = (String) 'face';
- ☐ c. String S4=(String)\ufeed;
- ☒ d. String S1='null'; ✖

The correct answer is:

String S2=null;

Question 22

Correct

Mark 1.00 out of 1.00

Flag question

The primitive type char in Java consists of:

- ☒ a. 16 bits ✔
- ☐ b. 8 bits
- ☐ c. 24 bits
- ☐ d. 32 bits

The correct answer is:

16 bits

Question 23

Correct

Mark 1.00 out of 1.00

Flag question

Which of the following is a valid declaration of boolean?

- ☐ a. boolean b2 = no;
- ☐ b. boolean b3 = yes;
- ☒ c. boolean b4 = false; ✔
- ☐ d. boolean b5 = Boolean.false();

The correct answer is:

boolean b4 = false;

Question **24**

Incorrect

Mark 0.00 out of 1.00

Flag question

What is the default data type of the literal represented as 48.0?

- ☒ a. float ✖
- ☐ b. int
- ☐ c. double
- ☐ d. byte

The correct answer is:
double

Question **25**

Incorrect

Mark 0.00 out of 1.00

Flag question

If x, y, and z are all integers, which expression will produce a runtime error?

NOTE: The expressions are always evaluated with all the integers having a value of 1.

- ☐ a. `z = y%--x`
- ☒ b. `z = y/x--;` ✖
- ☐ c. `z = x/y--;`
- ☐ d. `z = -x/x;`

The correct answer is:
`z = y%--x`

Question **26**

Correct

Mark 1.00 out of 1.00

Flag question

Which of the following is correct?

`128 >>> 1` gives

- ☒ a. 64 ✓
- ☐ b. -32
- ☐ c. -64
- ☐ d. 32

The correct answer is:
64

Question **27**

Correct

Mark 1.00 out of 1.00

[Flag question](#)

Which of the following is a valid Java identifier?

- ☐ a. 3numbers
- ☐ b. @attherate
- ☒ c. _underscore ✓
- ☐ d. %percent

The correct answer is:
_underscore

Question **28**

Correct

Mark 1.00 out of 1.00

[Flag question](#)

If i is an int and s is a short, how do you assign i to s?

- ☐ a. s = i;
- ☐ b. i = (int) s;
- ☒ c. s = (short) i; ✓
- ☐ d. i = s;

The correct answer is:
s = (short) i;

Question **29**

Correct

Mark 1.00 out of 1.00

[Flag question](#)

Which of the following is a valid initialization?

- ☒ a. int i = 0xDeadCafe; ✓
- ☐ b. boolean b = TRUE;
- ☐ c. long l = 79,653;
- ☐ d. float f = 27.893;

The correct answer is:
int i = 0xDeadCafe;

Question **30**

Which one of the below expression is equivalent to 15×22 ?

Question 30

Correct

Mark 1.00 out of 1.00

[Flag question](#)

Which one of the below expression is equivalent to $16 > 2$?

- ☐ a. 16^*4
- ☒ b. $16/4$ ✓
- ☐ c. 16^*2
- ☐ d. $16/2$

The correct answer is:
 $16/4$

Question 31

Correct

Mark 1.00 out of 1.00

[Flag question](#)

What is the value of x after this code is run?

```
int x = 3;
```

```
int y = 3;
```

```
x += (y + x * 2);
```

- ☒ a. 12 ✓
- ☐ b. 9
- ☐ c. 11
- ☐ d. 10

The correct answer is:
12

Question 32

Incorrect

Mark 0.00 out of 1.00

[Flag question](#)

Given a variable x of type int (which can contain a negative value), which of these expressions always gives a positive number irrespective of the value of x?

- ☒ a. $x > > 1$; ✗
- ☐ b. $x > > > 1$;
- ☐ c. $x < < 1$;
- ☐ d. $x < < 2$;

The correct answer is:
 $x > > > 1$;

Question 33

Incorrect

Mark 0.00 out of 1.00

Flag question

Which primitive type ranges from -2^{31} to $(2^{31})-1$?

- ☐ a. byte
- ☐ b. int
- ☒ c. short ✖
- ☐ d. long

The correct answer is:
int

Question 34

Incorrect

Mark 0.00 out of 1.00

Flag question

Given:

```
int x = 7;
```

```
x <<= 2;
```

What best describes the second line of code?

- ☐ a. It assigns the value to x after shifting 2 to x places left.
- ☐ b. It is invalid because there is no such operator as $<<=$.
- ☒ c. It assigns the value of 2 to x, and shifts it to left by one place. ✖
- ☐ d. It assigns the value to x after shifting x to 2 places left.

The correct answer is:
It assigns the value to x after shifting x to 2 places left.

Question 35

Correct

Mark 1.00 out of 1.00

Flag question

Given a variable x of type int (which contains a positive value), which is the correct way of doubling the value of x, barring any wrapping of out-of-range intermediate values?

- ☐ a. $x >> 1$;
- ☒ b. $x << 1$; ✔
- ☐ c. $x << -1$;
- ☐ d. $x >>> 1$;

The correct answer is:
 $x << 1$;