Quiz - Lecture 17

Due 7 Oct at 23:59

Points 5 Que

Questions 5

Available 6 Oct at 9:10 - 7 Oct at 23:59 1 day

Time limit None

Allowed attempts Unlimited

Take the quiz again

Attempt history

At	ttempt	Time	Score
KEPT At	ttempt 2	4 minutes	5 out of 5
LATEST At	ttempt 2	4 minutes	5 out of 5
At	ttempt 1	less than 1 minute	0.98 out of 5

Score for this attempt: 5 out of 5

Submitted 6 Oct at 12:11

This attempt took 4 minutes.

Question 1

1 / 1 pts

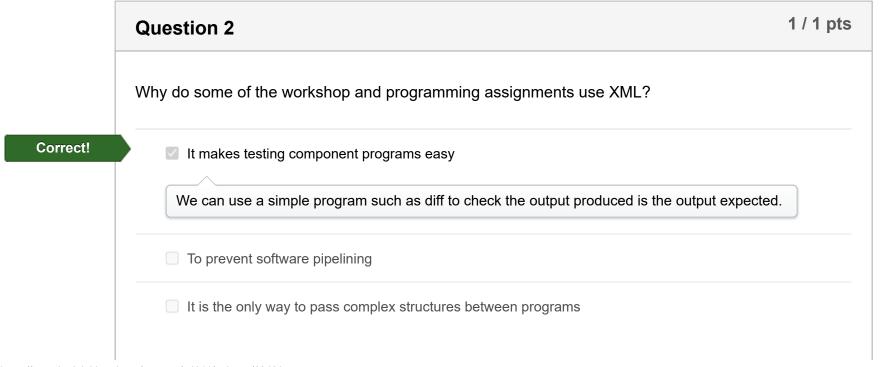
Which lines of the following Jack class in the file 'CoolClass.jack', contain a syntax error?

```
01 class Broken
02 {
03     int hd;
```

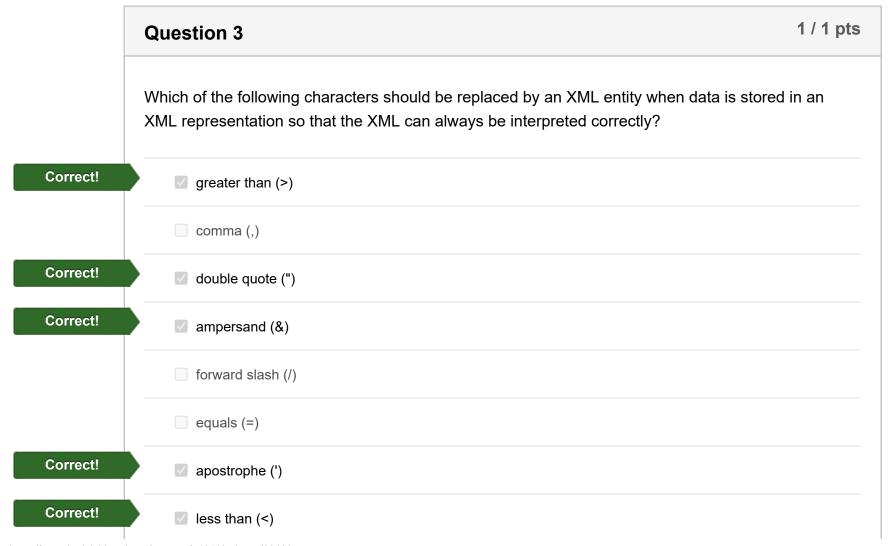
```
field Broken tail ;
               04
               05
                      int next()
               06
               07
               08
                            var Bad x ;
               09
                            let x = BadClass.returnsnull(tail);
               10
                            return x ;
               11
               12
               13 }
                 13
                 9
                 5
                 2
                 4
Correct!
                  ✓ 1
                   The class name must match the filename.
                 8
Correct!
                  ✓ 3
                   class variables must be prefixed by the keyword 'static' or 'field'.
```

Functions must be prefixed by the keyword 'constructor', 'function' or 'method'. In this case we are using the field tail so this should be prefixed by 'method'.

12
10
7



Correct!	☑ It is easy for humans to read
Correct!	☑ It allows programs to pass an abstract syntax tree to another program using *nix pipes.
	XML is used to make sure that the programming is not too easy



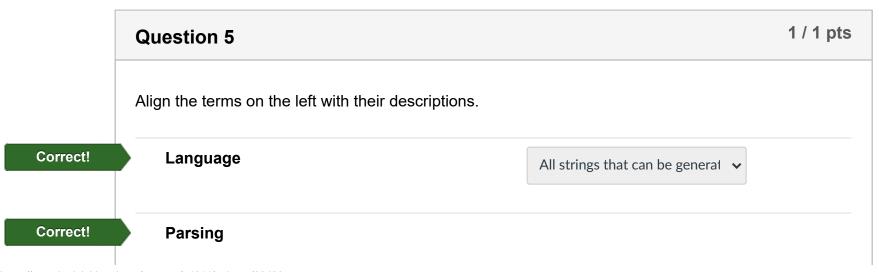
newline

	Question 4	1 / 1 pts	
	Your boss has asked you to write compilers for two new programming languages that must run on any one of four new processors. How may compilers might you need to write?		
	13		
	3		
	5		
	9		
	14		
Correct!	☑ 6		
	16		
Correct!	■ 8		
	7		
Correct!	☑ 2		

If you compile directly for each processor, each of the 2 languages will need 4 different compilers, 2 x 4 = 8.

If you compile to an intermediate virtual machine code, each of the 2 languages will need a compiler to the VM code, and then there will need to be a compiler (translator) from VM code to each of the 4 processors, 2 + 4 = 6.

If the VM code compilers has already been implemented for the 4 new processors then you will only need 2 compilers.



Other Incorrect Match Options:

Grammar

Tokenising

- Translating one language into another.
- Constructing a parse tree.

Quiz score: 5 out of 5

10/6/2020

Correct!

Correct!