

## Congratulations! You passed!

 $\textbf{Grade received}\ 100\% \quad \textbf{To pass}\ 80\%\ or\ higher$ 

Go to next item

1.	You wish to store a list of grades for a class. Given the choice between a set and a list, which is the more appropriate data structure?	1 / 1 point
	(i) List	
	O Set	
	○ Either would do	
	○ Correct     Correct. A list will allow you to store repeating instances of data.	
2.	In relation to data structures what does mutability mean?	1 / 1 point
	O It means that once an object is created it cannot be changed.	
	It means that it can be changed after it has been created.	
	O It relates to dynamic programming languages, and it can be passed as a variable to a function.	
	○ Correct	
	That's correct. It relates to the ability to be able to change a value after it has been instantiated.	
3.	LIFO and FILO mean the same thing?	1/1 point
	True	
	○ False	
	○ Correct	
	That's correct. FILO (First In Last Out) is another way of saying LIFO (Last in First Out).	
4.	Creating a class through the use of a capital T as below:	1/1 point
	Stack <t>, is an example of what?</t>	1/1 point
	O Immutability	
	Generics	
	© Encapsulation	
	○ Correct     ○ Corre	
	That's correct. In this way, the object created from the class need not be confined to one specific type until compile time.	
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5.	On what type of data structure would one do a depth first search?	1/1 point
	O Lists	
	○ Stacks	
	( Trees	
	Correct That's correct. A tree is a series of interconnected nodes that build under one root node. Doing a depth first search, is to follow one branch of nodes to the very	
	deepest one.	