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1.	What do TSV files use to separate their data?
	○ Types○ Topic
	Tabs
	 Correct That's correct. The TSV are Tab Separated Values.
2.	Arrays are always stored on the stack?
	Yes, but only through making a deep-copy.No
	Yes, but only through making a shallow-copy.
	Correct Correct. While one can make a shallow copy of an array, the actual array itself is not copied. Making a deep copy creates a new instance of an array with the same values but that exists in its own space in memory.
3.	What happens when you try to retrieve a value using a number greater than the index size?
	It would return a warning and a message indicating the issue.
	Nothing. There would be nothing to retrieve so it would return null.It would throw an error.
	Correct That's correct. Accessing the array outside of the index range throws an out-of-bounds error.
4.	In relation to computer science, what is a class?
	It is the thing from which arrays are build.

	An object that has functionality.	
	It is a blueprint for an object.	
	Correct That's correct. How the class is coded is what characteristics the object will embody.	
5.	In relation to objects, what are instance variables?	1/1 point
	Characteristics of the class.	
	An attribute that has an immediate impact when compiled.	
	Attributes that can take on many forms.	
	 Correct That's correct. Variables are the characteristics or attributes associated with a class. 	
6.	How many children can a node in a binary tree have?	1/1 point
	O 1	
	2	
	O 4	
	That's correct. As the name suggests it can have two children nodes, one larger and one smaller.	
7	Which of the following uses a FIFO approach	
۲.	Which of the following uses a FIFO approach.	1/1 point
	Stacks	
	Queues	
	C Lists	
	Correct That's correct! A queue works much like its namesake. The first one to arrive is the first one to be served.	
8.	In relation to data structures what does synchronization mean?	1/1 point
	It is something to do with swimming.	
	Relates to a measured way of increasing the size of an object.	
	Making a class thread safe.	

9.	Why do you need to implement a comparator when storing objects on a tree?	
	 As a means of comparing objects so the tree knows which node to store an object on. To ensure that values don't clash when being added to a tree. So that the compiler can know to keep the tree balanced by comparing a number of node. 	des.
	Correct That's correct. The implementation of some trees requires that objects are stored relation to another. Enabling a comparator allows you store objects of different types in relation to another.	
10.	. Why are heaps called heaps?	
	Because they store a selection of different data types.	
	The organization of their data is done in a very loose way, so it is said that the elements together.	are heaped
	The order of importance is determined by where in the data structure the information is	found.

Correct. A heap will place the most important element at the top. This can be the highest or

top value and not try and retrieve one in the middle.

lowest depending on implementation. The design of this approach is that one would only take the

That's correct. Synchronizing an object means that only one thing can access it at a time.

Correct

✓ Correct