

6. How many children can a node in a binary tree have? ○ 1	1/1point
 Correct That's correct. As the name suggests it can have two children nodes, one larger and one smaller. Which of the following uses a FIFO approach. 	1/1 point
 ○ Lists ○ Stacks ● Queues ○ Correct That's great A group yields much like its appeals. The first are to prive is the first are to be coved.	
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? O It is something to do with swimming.	1/1 point
 Relates to a measured way of increasing the size of an object. Making a class thread safe. Correct That's correct. Synchronizing an object means that only one thing can access it at a time. 	
 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. So that the compiler can know to keep the tree balanced by comparing a number of nodes. To ensure that values don't clash when being added to a tree. 	1/1 point
Correct That's correct. The implementation of some trees requires that objects are stored relative to one another. Enabling a comparator allows you store objects of different types in relation to one another.	
 10. Why are heaps called heaps? The organization of their data is done in a very loose way, so it is said that the elements are heaped together. The order of importance is determined by where in the data structure the information is found. Because they store a selection of different data types. 	1/1 point
Correct Correct. A heap will place the most important element at the top. This can be the highest or lowest depending on implementation. The design of this approach is that one would only take the top value and not try and retrieve one in the middle.	