

Assignment6-Answer

True or False:

1. [1 pts] The complexity of insertion algorithm is $O(n^2)$. ✓
2. [1 pts] Any algorithm can be represented by combination of the three primary control structures. ✓
3. [1 pts] An algorithm is said to be correct if it can halt on all input. ×

Short Answers:

4. [3 pts] Write down the three primary control structures:

Sequential, Conditional, Loop

5. [2 pts] What is the difference between WHILE loop and REPEAT loop:

WHILE: Test the condition and then execute;

REPEAT: Execute the activity then test the condition.

6. [2 pts] What are the two indispensable part of any formal logic system?

Formal Language and formal logical consequence relation