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CSC142

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Self-Checking Problems

Recursion: Recursion is when a statement in a function calls itself repeatedly. The iteration is when a loop repeatedly executes until the controlling condition becomes false. The primary difference between recursion and iteration is that is a recursion is a process, always applied to a function. Iteration is applied to the set of instructions which we want to get repeatedly executed.

3.

1. 1
2. 1,2
3. 1,3
4. 1,2,4
5. 1,2,4,8,16
6. 1,3,7,15,30
7. 1,3,6,12,25,50,100

6.

1. 4
2. 8,4,8
3. 16,8,16
4. 12,8,4,8,12
5. 12, 9, 6, 3, 6, 9, 12

9.

Print out the given file/input while there’s line to read

13.

1. 6
2. 4
3. 7
4. 0
5. 1

15.

a) 7

b) 6

c) 4

d) 10

e) 5

18.

Tell the clients what’s working what’s not,

23.

Decision tree: Decision tree is the most powerful and popular tool for classification and prediction. A decision tree is a flowchart-like tree structure, where each internal node denotes a test on an attribute, each branch represents an outcome of the test, and each leaf node holds a class label. With this hierarchical architecture, you can backtrack the value changes.