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Professor Snyder

CAS CS112 Intro to Comp Sci 2

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**Homework Eight – Part A: Analytical Problems**

Problem One

a. A, B, C, D; E, F

b A, B, C, D; E, F

c. A, C, B, D; E, F

d/e. Depth-first search: F, E; D, B, A, C

Breadth-first search: F, E; D, B, C, A

Problem Two

a. A, B, D, C, E

b. A, B, D, E, C

c. A, E, D, B, C

d/e. Depth-first search: E, A, B, D, C

Breadth-first search: E, A, B, D, C

Problem Three

a. (a.1) A, B, C, D, G, F, E

(a.2) A, B, C, D, G, F, E

b. A, B, E, C, F, D, G

c. (c.1) G, F, E, D, B, C, A

(c.2) G, F, E, D, B, C, A

d. G, F, E, D, B, C, A

Problem Four

a. (a.1) A, B, C, D, F, E, G

(a.2) A, B, C, D, F, E, G

b. A, B, C, D, F, E, G

c. (c.1) G, D, B, F, E, A, C

(c.2) G, D, B, F, E, A, C

d. G, D, B, F, E, A, C