

Problem Set 2

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1. (Section 3.3, problem 3)

- a) { TFF, TTF, FFT, FFF }
- b) Yes
- c) { TTT, FTT, FFT, FFF }

2. (Section 4.1, problem 2)

- a) the stack is null

the stack is empty

- b) the stack is null

$b_1 = \text{true}$ $b_2 = \text{false}$

the stack is empty

- c) $b_1 = \text{true}$ $b_2 = \text{false}$

3) stack null: { 2, 4, 5 }

3. (Section 4.2, problem 4)

- a) Yes. There are no values given to set S_1 that does not fall into the characteristics.

- b) Yes. There is no value that does not fall into the given characteristic.

- c) Yes. Even if both sets are null or either S_1 or S_2 is null, it's covered by method signature.

- d) No. S_1 and S_2 are empty sets. The characteristics (S_1 and S_2 represent the same set) and (S_1 and S_2 does not have elements in common) both satisfied.

e) 7 because $1+3+3$