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CSC 201

Assignment 1

Professor: Thelma Looms

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Programming Warm-up Exercises

**1 (Page 40)**

Branches: (the conditional control structure executes different statements depending on certain conditions)

Steps n1, n2, and n3.

Loops: (repetition- repeating statements while certain conditions are met)

Steps t and u.

References to subalgorithms defined elsewhere:

Step a

**2 (Page 41)** Algorithm for brushing teeth

1. 1- If left-handed, pick up your toothpaste on the right hand unscrew the top by your left hand. Turning the top counter clockwise (CCW) and put it on the counter above the sink. Using your left hand pick up toothbrush and holding its handle two-third from the brush. With toothpaste in the right hand, squeeze the tube slightly force to get a 1.5 cm long extrusion of toothpaste on the brush. Put the toothbrush with extrusion on the counter. Use your left hand pick the toothpaste’s top up. Place back and close the toothpaste tube. Return the toothpaste to the original place.

2- If right-handed, pick up your toothpaste on the left hand unscrew the top by your right hand. Turning the top counter clockwise (CCW) and put it on the counter above the sink. Using your right hand pick up toothbrush and holding its handle two-third from the brush. With toothpaste in the left hand, squeeze the tube slightly force to get a 1.5 cm long extrusion of toothpaste on the brush. Put the toothbrush with extrusion on the counter. Use your right hand pick the toothpaste’s top up. Place back and close the toothpaste tube. Return the toothpaste to the original place.

1. 1- If left-handed, pick up your toothbrush with extrusion from the counter on the left hand.

2- If right-handed, pick up your toothbrush with extrusion from the counter on the right hand.

1. Hold it by its handle and insert brush in your mouth.
2. Place toothpaste against teeth
3. Scrub teeth 8 times by moving circle and up and down upper teeth in the left and right
4. Repeat step E by scrubbing under teeth in the left and right.
5. Repeat scrubbing the surface of teeth up and down 8 times from the left to middle and the right.
6. Spit toothpaste into the sink
7. Wash the toothbrush under the water and put it back to the original place according to a separate algorithm
8. 1-if left handed, pick up a glass with your left hand

2-if right handed, pick up a glass with your right hand

1. Filling glass with water according to instructions in a separate algorithm.
2. Fill your mouth with water from the glass
3. Swish water in mouth for 3 seconds
4. Spit water from mouth into the sink
5. Repeat step K, L and M 3 times
6. Put the glass back on the counter

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Branches: steps A1, A2, B1, B2, H1 AND H2

Loops: step F, G and O

References to subalgorithms defined elsewhere: steps I and K.