Q1

a) There will be a total of **4** processes created by the end of the program.

b) Since the variables are copied when a fork() call happens, there will be **4** c vaiables, equal to the number of processes.

c) For the main process, c value will be equal to **5**.
For the first child of the main process, c value will be equal to **9**.
For the child of the first child of the main process, c value will be equal to **3**.
For the second child of the main process, c value will be equal to **5**.

Q2

My solution to this question is inside the file *cos_hw1_q2_v2.c* .

Compile: gcc *cos_hw1_q2_v2.c* –o hw1_v2

Run: ./hw1_v2

An example output of my code for question 2:

```
alperen@alp-Dell-Inspiron-ubuntu:~/Desktop/Operating Systems$ gcc cos_hw1_q2_v2.c -o hw1_v2
alperen@alp-Dell-Inspiron-ubuntu:~/Desktop/Operating Systems$ ./hw1_v2
<8851, [], 3>
<8853, [], 4>
<8852, [8853], 3>
<8850, [8851, 8852], 2>
<8855, [], 3>
<8858, [], 4>
<8857, [8858], 3>
<8854, [8855, 8857], 2>
<8860, [], 3>
<8862, [], 4>
<8861, [8862], 3>
<8859, [8860, 8861], 2>
<8849, [8850, 8854, 8859], 1>
alperen@alp-Dell-Inspiron-ubuntu:~/Desktop/Operating Systems$
```