Computer Operating Systems Homework № 1

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Question 1

a) How many processes will be created?
For every call for fork() function new process will be created.So for 3 fork call we will have 4 different process.

b) How many ‘c‘ variable will be generated?
For every process all of the variables defined before fork call will be copied to different physical address and new process will use this new address for the remaining parts of the program.So 4 different address will be used for ’c’ variable.

c) What are the values stored inside ‘c‘ variables for each process just before their termination?
For four different ’C’ variables, their values will be; 5, 5, 9, 3.
Main process will print 5, and the process created in else statement will have value 5 aswell.For the first fork call we will have child that has 9 for its ’c’ variable.And lastly in if statement fork, new process will have 3 as ’c’ value.

Instructions For Question 2

See the following commands :

```
1  $ gcc -o program <FILE_NAME>.c
2  $ ./program
```