

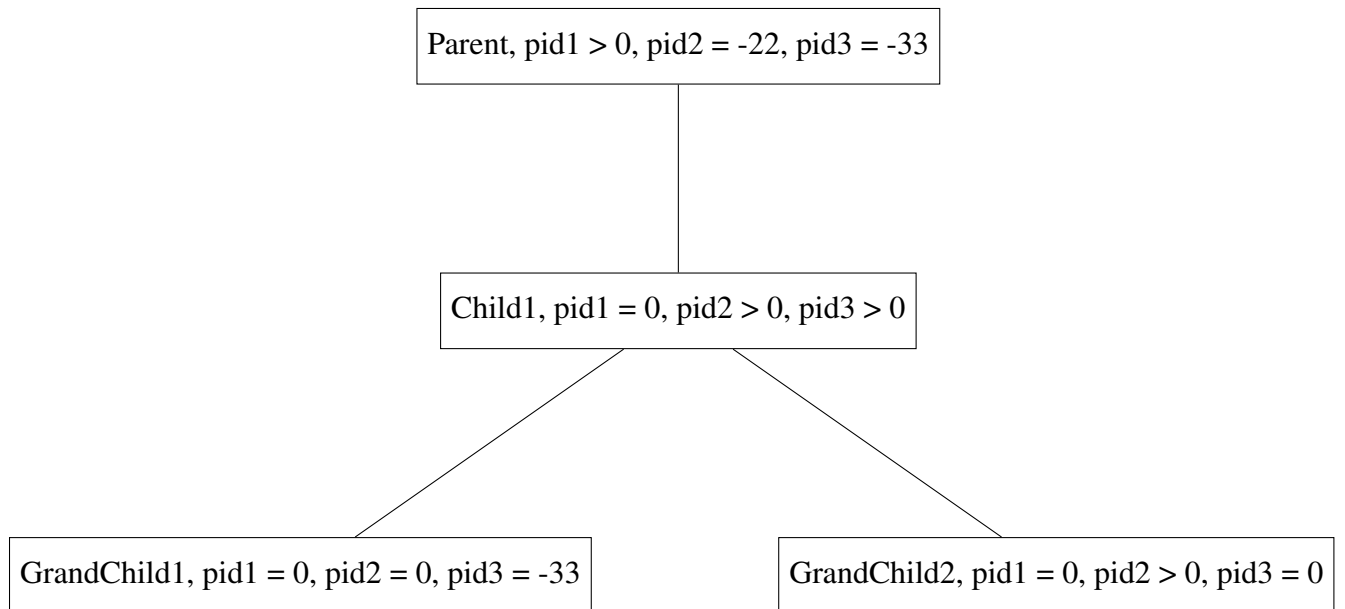
Assignment 3

09-28-23

Kushagra Khatwani (kk5395)

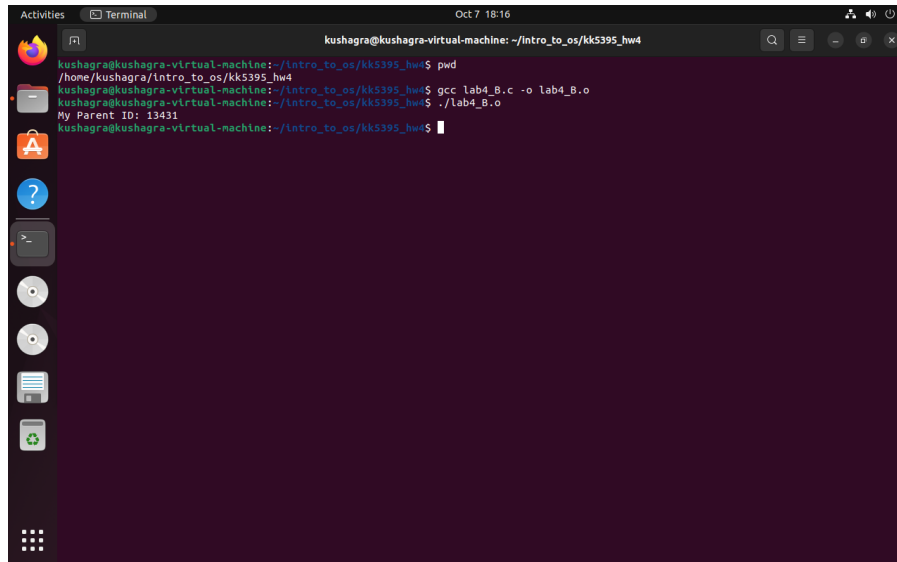
Ans A.

Process Tree for the question is as follows (assuming that we start with the main process as parent and do not represent kernel space processes.):



Ans B.

PFA screenshot for the output of code in Question Number B.

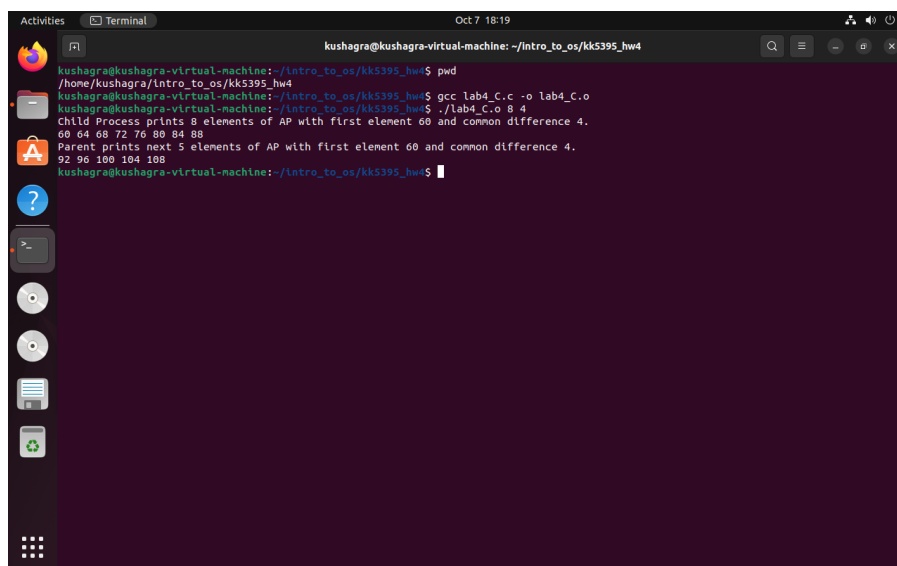


```
kushagra@kushagra-virtual-machine: ~/intro_to_os/kk5395_hw4
kushagra@kushagra-virtual-machine:~/intro_to_os/kk5395_hw4$ pwd
/home/kushagra/intro_to_os/kk5395_hw4
kushagra@kushagra-virtual-machine:~/intro_to_os/kk5395_hw4$ gcc lab4_B.c -o lab4_B.o
kushagra@kushagra-virtual-machine:~/intro_to_os/kk5395_hw4$ ./lab4_B.o
My Parent ID: 13431
kushagra@kushagra-virtual-machine:~/intro_to_os/kk5395_hw4$
```

Figure 1: Snapshot

Ans C.

PFA screenshot for the output of code in Question Number C.



```
kushagra@kushagra-virtual-machine: ~/intro_to_os/kk5395_hw4
kushagra@kushagra-virtual-machine:~/intro_to_os/kk5395_hw4$ pwd
/home/kushagra/intro_to_os/kk5395_hw4
kushagra@kushagra-virtual-machine:~/intro_to_os/kk5395_hw4$ gcc lab4_C.c -o lab4_C.o
kushagra@kushagra-virtual-machine:~/intro_to_os/kk5395_hw4$ ./lab4_C.o 8 4
Child Process prints 8 elements of AP with first element 60 and common difference 4.
60 64 68 72 76 80 84 88
Parent prints next 5 elements of AP with first element 60 and common difference 4.
92 96 100 104 108
kushagra@kushagra-virtual-machine:~/intro_to_os/kk5395_hw4$
```

Figure 2: Snapshot