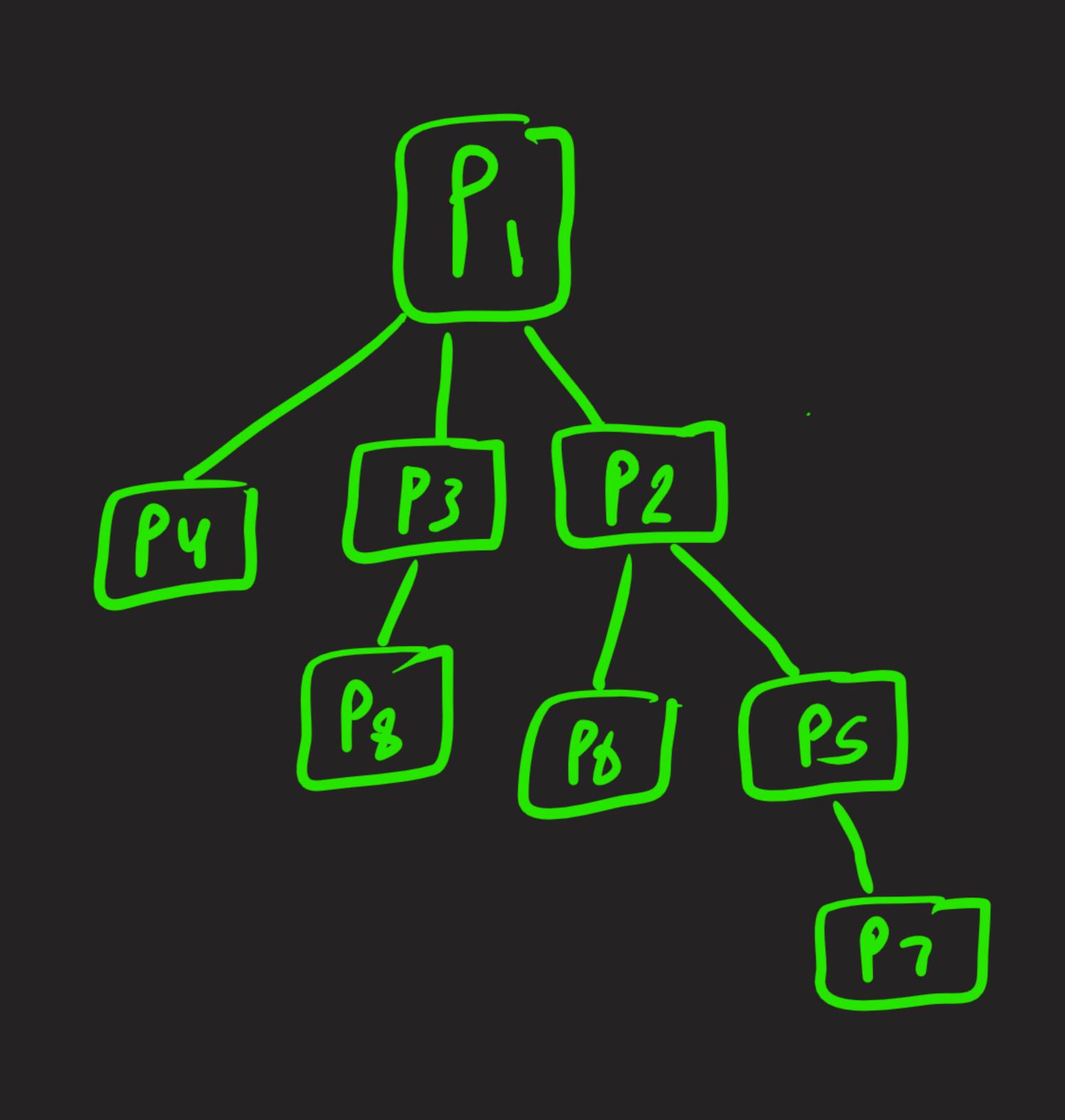
#Problem Set "1" Solutions:-

3.

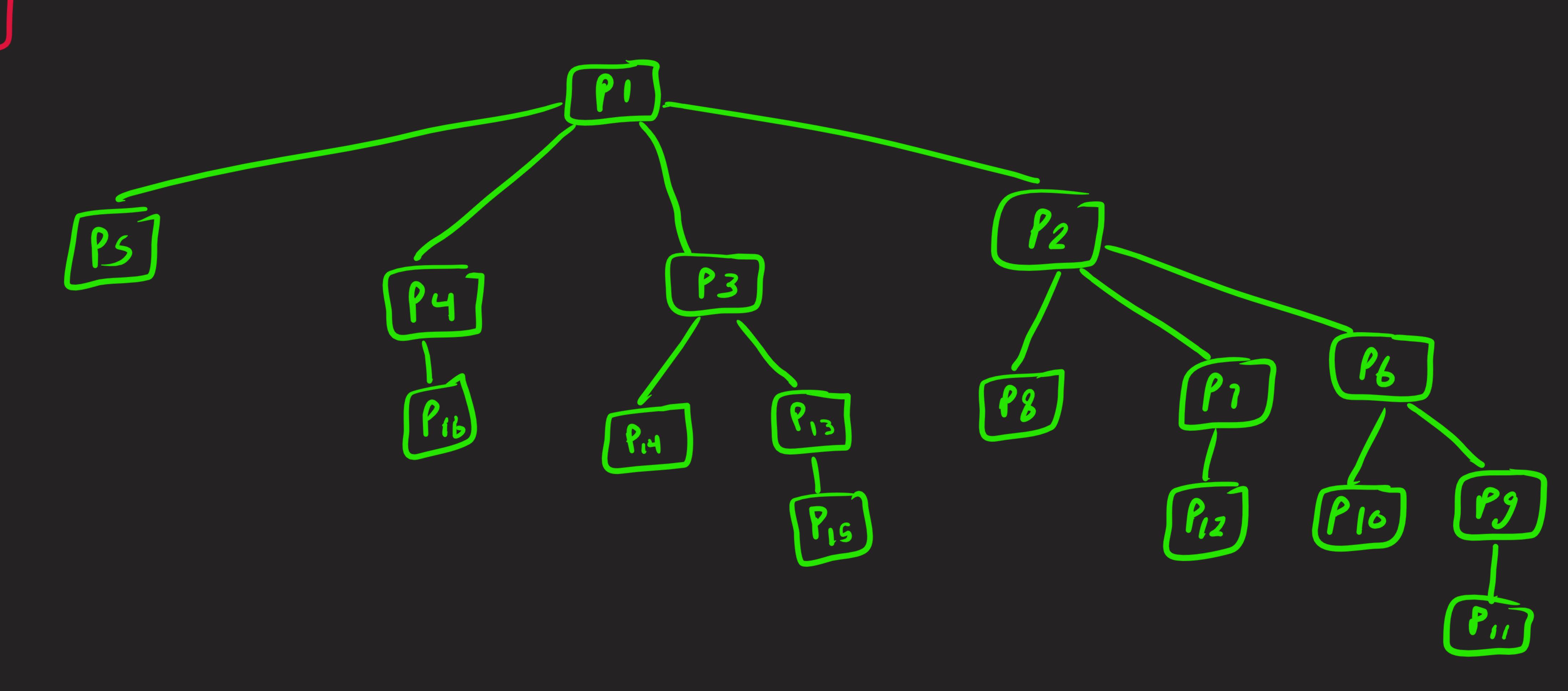
- . The autPut: PARENT: Value = 5
- · The Pavent and the Child Will have different Colies of the Variable Value; the Child Will update its copy to 20 but the Pavent Wonit.

3.2

- . Total no. Process = 8
- If you hav n Consequence Calls of fork(), the your Will 2n process Created



3.12



· Total no. Cheated Processes = 16

- The function exectle() Will Look for the file /bin/ls, if the file is found then exectle will run it and the control will be with the new Process of the file /bin/ls and the line Printf ("LINE J") will never be reached.
- · If the file |bin | 15 is not found; then the function exected will known and the line printf("LINE J") will be executed.

3.14

263

2603

2600

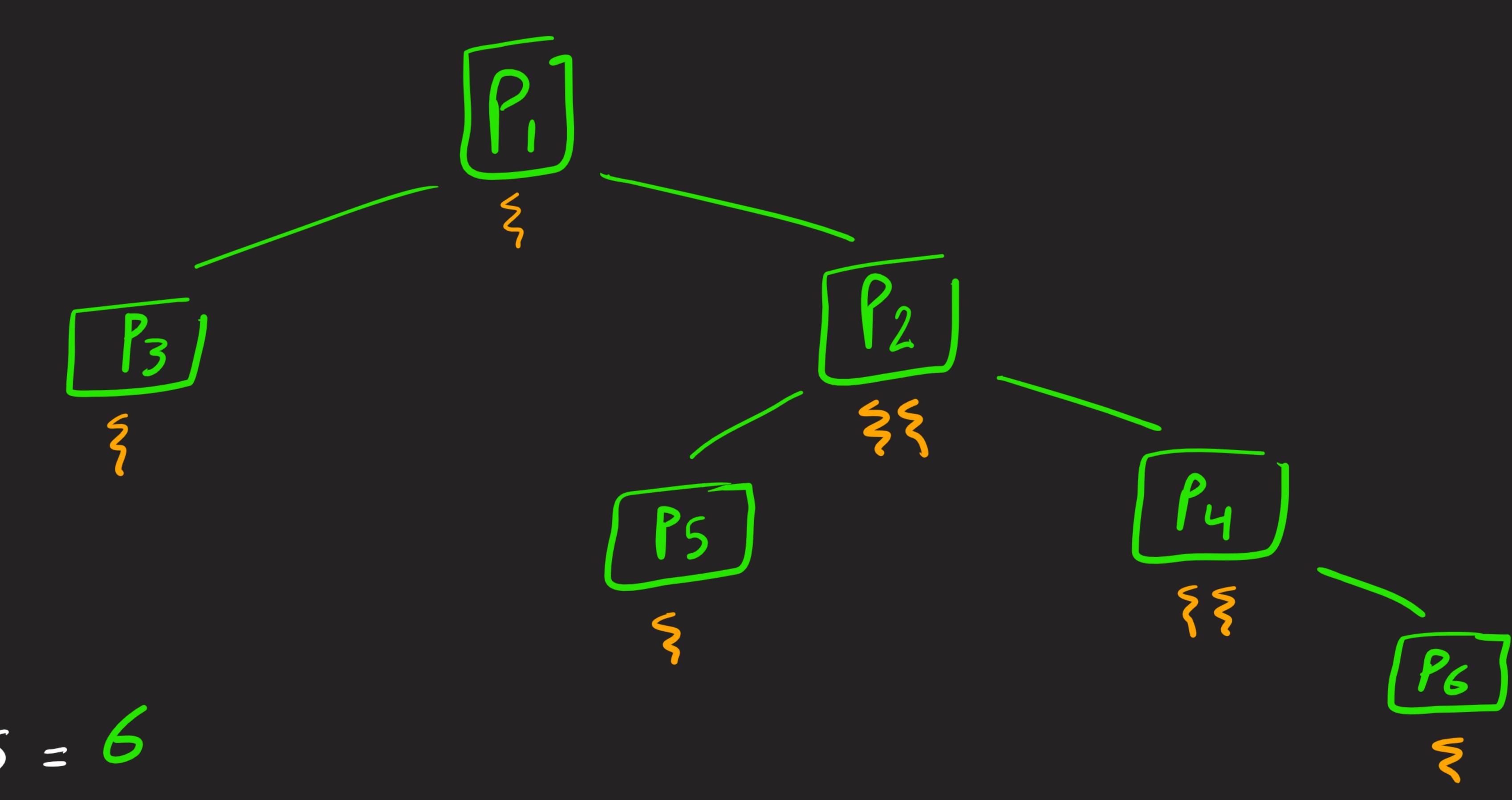
3.17

line 1: 0, -1, -4, -9, 1-16

line 7:0,1,2,3,4

This happens because the Parant Process and the child Process hold different copies of the array rums.

4.15



a) Total no. Processes = 6

b) Total no. threads = 8

=1> Every Process will have 1 thread except for Processes

Py, P6 will have 2 threads each.

4.17

line C: CHILD: Value = 5

line P: PARENT: Value = 0

. A thread will be created in the child process, this thread will call the function runner () which sets Value = 5