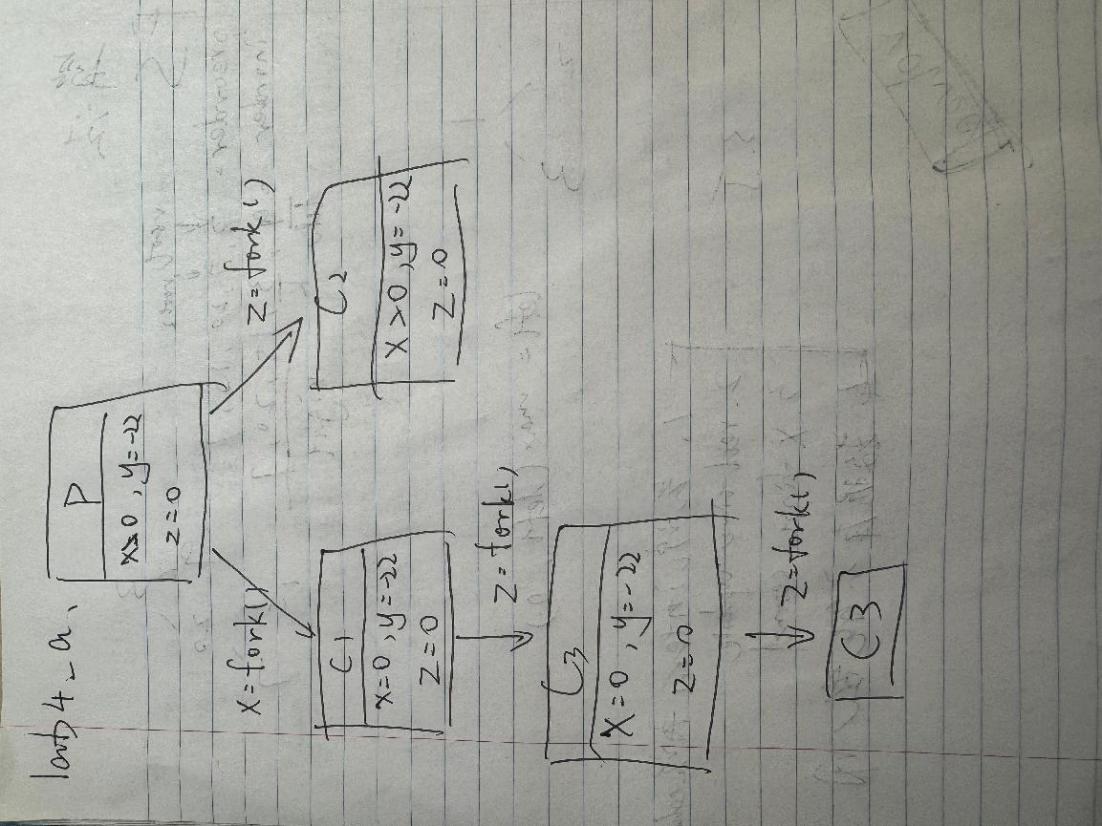
LAB\_A

Since y = -22, the condition (y > 0) is false, so the second fork() does not execute.

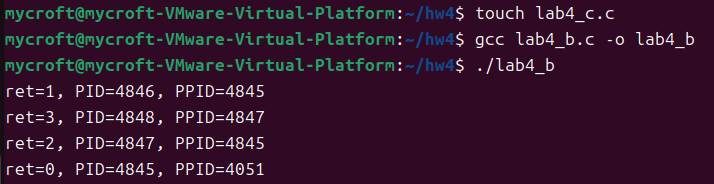
The first and third fork() calls together create four processes: P, C1, C2, and C3.

The process tree and variable values (x, y, z) are shown in the figure.



LAB\_B

The program creates a process tree where the parent has two children, and the second child creates another child.  
Each process returns: parent = 0, first = 1, second = 2, third = 3.  
The output verifies the correct parent–child relationships.



LAB\_C

The program takes n and d as input.

The child prints n arithmetic terms (0, d, 2d, …), then the parent waits and prints two more (n\*d, (n+1)\*d).

Example: ./lab4\_c 5 2 →

0 2 4 6 8

10 12.

