

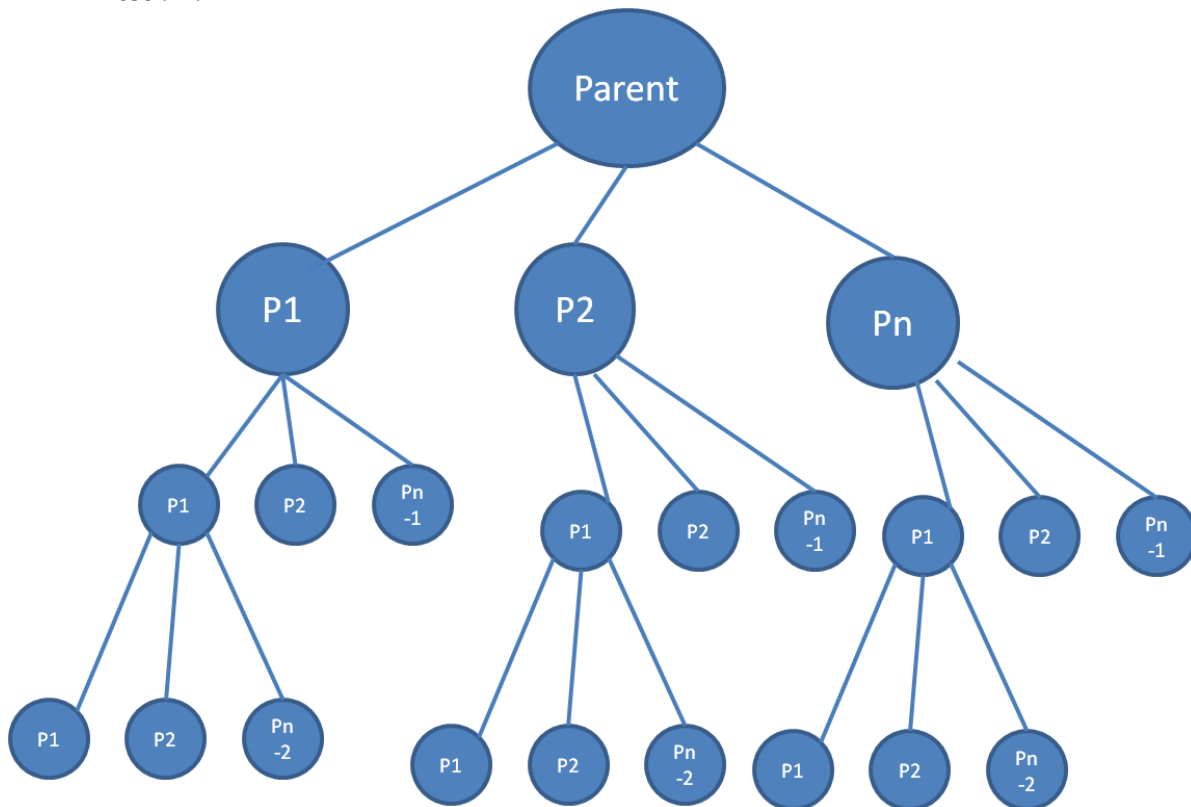
BIRLA INSTITUTE OF TECHNOLOGY & SCIENCE, PILANI (RAJASTHAN)
II SEMESTER 2017-2018
LAB-1 EXERCISE

Course No.: IS F462
Due Date: 25th Jan

Course Title: Network Programming
Maximum Marks: 20M

Write a program tree.c for the following requirement.

- Take input n on command-line.
- Parent creates n children at level1.
- Each child in-turn creates $n-1$ children at level2. Each child at level2 creates $n-2$ children at level3. This continues until n reaches 0.
- Each child prints it level, its pid, parent's pid, its position i.e. 2 in if it is P2, ended by new line. Then it exits.
- Every process waits until all its children are exited. Parent exits printing "\nAll Children Exited\n".



Example output:

```
Level    pid      ppid   Position
2         2300      2287    3
1         2290      2286    5
1
...
```

Files Expected: A tar file **<idno>_lab1.tar** containing tree.c and makefile to compile your program.