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Lab 1 Answers

When running the above, what outputs do you observe?

- PAPBPCPDABCDABCDABCDABCD

Are the 'P' characters printed by the parent process interleaved by outputs from its children?

- Yes they are interlaced initially. They are spaced in between the first of each character. Afterwards the characters print in their initial orders one by one.

Set the priority values of the four processes using create() to 20, 20, 20, and 50. How do the results compare to the output of Problem 4.1?

- PAPBPCPDDDDDDABCABCABCABC
- It differs in that after the initial rotation of the first of each character, D takes the CPU because of its higher priority and finishes its execution before any of the others can print.

Set the priority values of the four processes to 20, 20, 50, and 50. How do the results compare to the output of Problem 4.2?

- PAPBPCCCCCPDDDDDDABABABAB
- The output is such that after as A and B get one rotation each but then C grabs the CPU and due to its highest priority + being called before D it gets to finish its execution first. After that D grabs the CPU and because it has a higher priority that A and B it gets to finish execution. After that A and B get to finish by alternating.