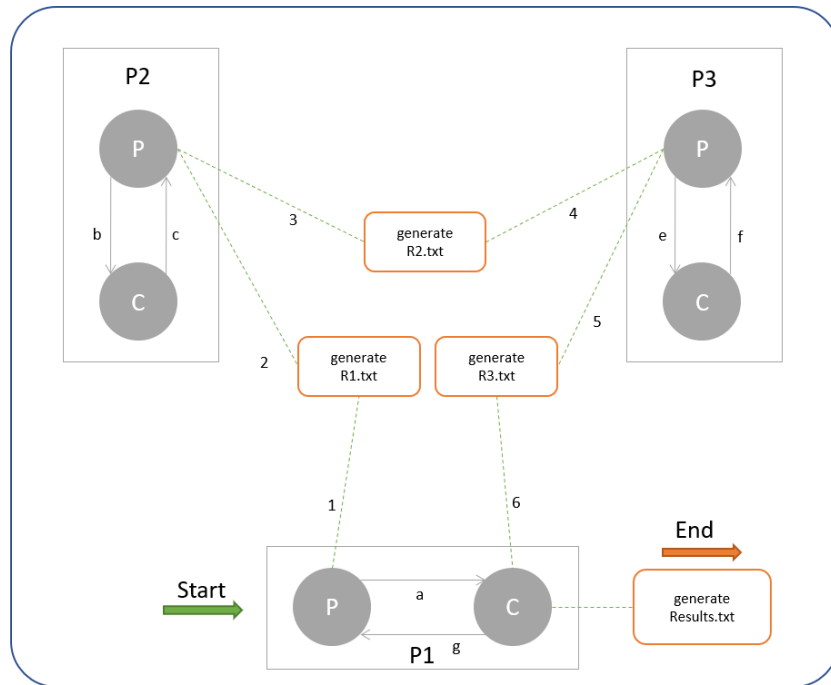


Iblis Encryptor

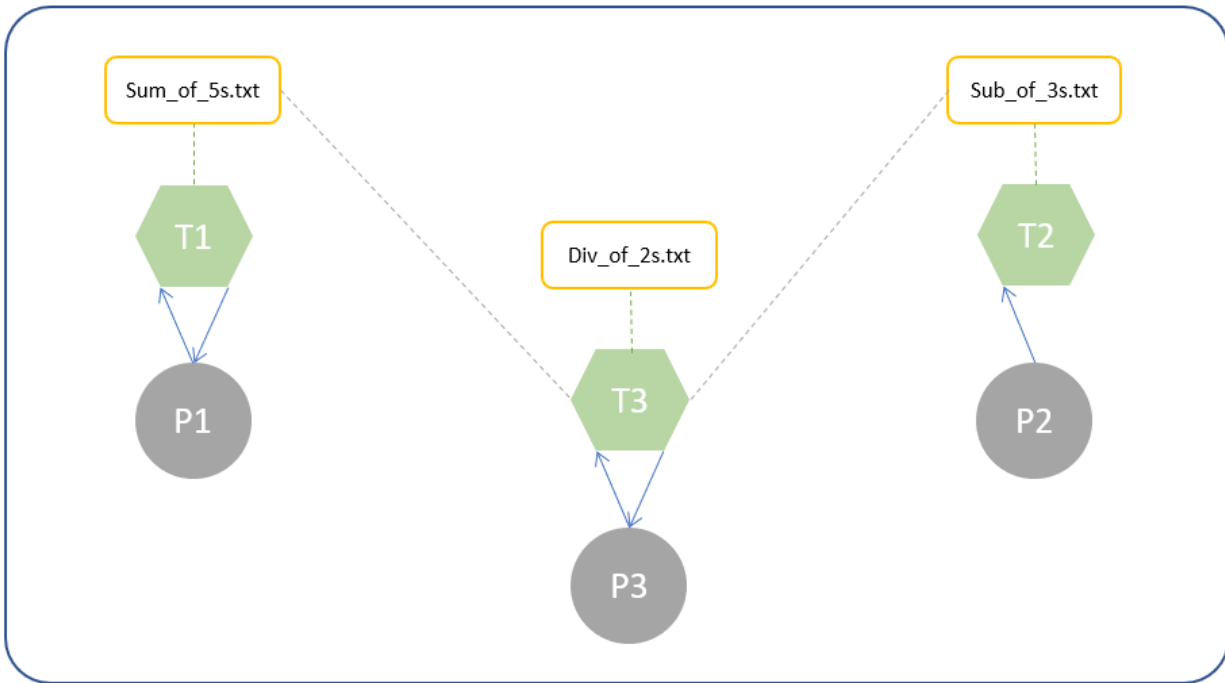


- **P1 program:**
 - Parent writes the contents to a file "R1.txt"[1].
 - Parent also sends a message or signal to Child [a] that it has sent the contents for encryption.
 - Child should only try to read an output from file "R3.txt" only if it has received a signal from Parent.
 - After reading the results from "R3.txt" [6], Child replaces any character that is not alphanumeric with "-" if the index of the character is even and with "." if the index of the character is odd and send results to Parent[g].
 - Parent should display the results and stores them in a new text file called "Results.txt"
- **P2 program:**
 - Parent reads the contents from file "R1.txt" [2]
 - Parent sends them to Child [b]
 - Child reverses the contents e.g. "Hello world, this is me" becomes "em si siht, dlrow olleH"
 - Child sends result to Parent [c]
 - Parent stores results in a new text file called "R2.txt"
- **P3 program:**
 - Parent reads the contents from a file "R2.txt" and send it to Child [e]
 - Child receives contents from Parent and also has expected result
 - Child matches if both the contents are the same.
 - If same, Child increments ascii value of each character by 3, otherwise, it increments value by 2.
 - Child then sends the results to Parent [f].
 - Parent also stores them in a new text file called "R3.txt"[5].
- **Execution:**

Type "make run" in terminal. Ignore the warnings and match your results with the provided results.

Note: make use of wait to achieve synchronization.

Anato's Counter



- **P1 program:**
This program will store a number in a variable "Var".
 - The program will initialize 5 pthreads,
 - In each thread, a random number is added to Var and returned to P1.
 - P1 will calculate sum of all the results and display the sum on the screen,
 - P1 also stores all the 5 results in a file called "Sum_of_5s.txt".
- **P2 program:**
This program will store a number in a variable "Var2".
 - The program will initialize 3 pthreads,
 - In each thread, a random number is subtracted from Var2 and then displayed on the screen.
 - In each thread, the result value will also be appended in a file called "Sub_of_3s.txt".
- **P3 program:**
This program will store a number in a variable "Var3".
 - The program will then initialize 2 pthreads, and pass them filenames "Sum_of_5s.txt" and "Sub_of_3s.txt".
 - Each thread must return the multiplication of all the numbers in each file.
 - P3 after receiving each result, will divide the values by var3 and then display on the screen
 - P3 also appending the result values after division in a file called "Div_of_2s.txt".
- **Execution:**
Type "make run" in terminal. Ignore the warnings and match your results with the provided results.