Lab Assignment 3 - Due June 16th @ 11:59 PM

10 Points Possible

Due: Mon Jun 16, 2025 11:59pm

Attempt 1

In Progress

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Unlimited Attempts Allowed

Available after Jun 9, 2025 12:00am

Details

EE-3233 Systems Programming for Engineers

Teaching/Lab Assistant: Kriza Baby

Recitation: Friday 11:00am – 12:00pm

Lab Assignment 3

In this assignment you must implement the Fibonacci function by using both the naïve(**fibonacci_naive**) and memo (**fibonacci_memo**) approaches. Then, measure the time it takes Python3 to compute **F(40)**.

Please use the concepts taught in the lecture for this assignment.

Testing

Use the time module (import time) to track the time it takes for a function to execute.

import time

start_time = time.time()

end_time = time.time()

elapsed_time = end_time – start_time # This is in seconds.

Call your two functions and measure time it takes for your code to complete. With **F(40)** I get the following output:

```
andres@lab-vm:~/Documents/assignment$ python3 assignment-3.py
Naive time: 34.00093603134155 sec
Memo time : 3.5762786865234375e-05 sec
```

Write the corresponding code to print your results.

Note

Beyond **F(40)** the time for the naïve approach increases drastically.

Deliverables

Upload a unique PDF file with screenshots of your code and simulation output. **Your PDF must include a simple header with your name and your abc123.** Submit a file with your work even if you cannot replicate the output shown above.

Grading

Full marks will be granted to students that replicate the output, or whose logic is correct.

- -1/10 points if you don't include the header with your name and abc123 in your file.
- -1/10 points if you only submit the image files to blackboard (.jpeg, .png, etc...)
- Submissions with links to screenshots uploaded to the internet will not be accepted.
- **No late submissions will be accepted. Refer to the syllabus.**

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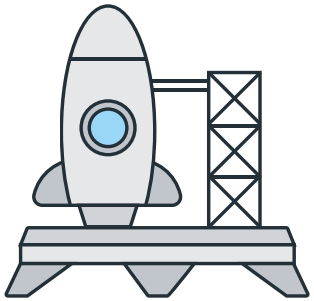

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