**Ho Chi Minh City University of Technology**

**FACULTY OF COMPUTER SCIENCE & ENGINEERING**

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Laboratory Report

OPERATING SYSTEM

Laboratory Report 4 -

Scheduling & Contiguous Memory Allocation

Course: Operating Systems

Student:

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Ho Chi Minh City, 15/11/2021

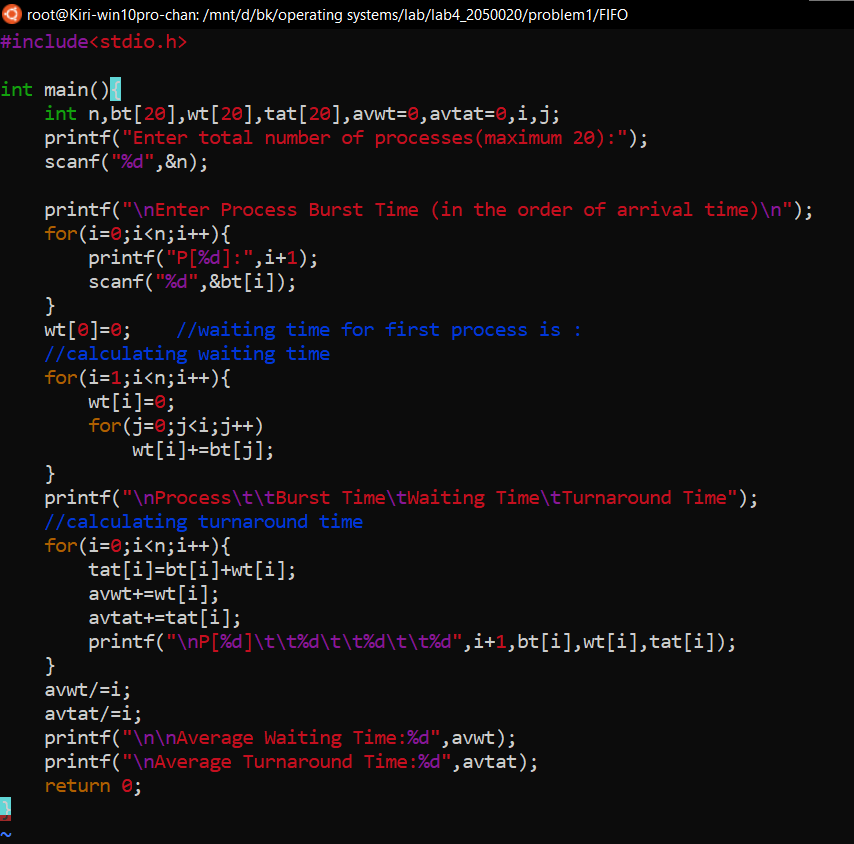
**3 Exercises**

1. **Write two programs for CPU scheduling using FIFO and Round Robin. Measure the total turnaround time for all processes.**

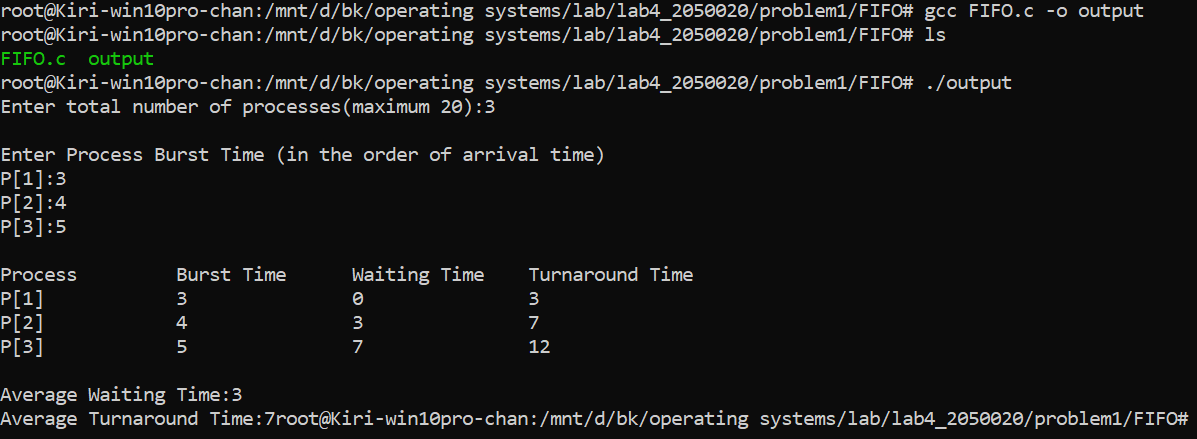
First is FIFO

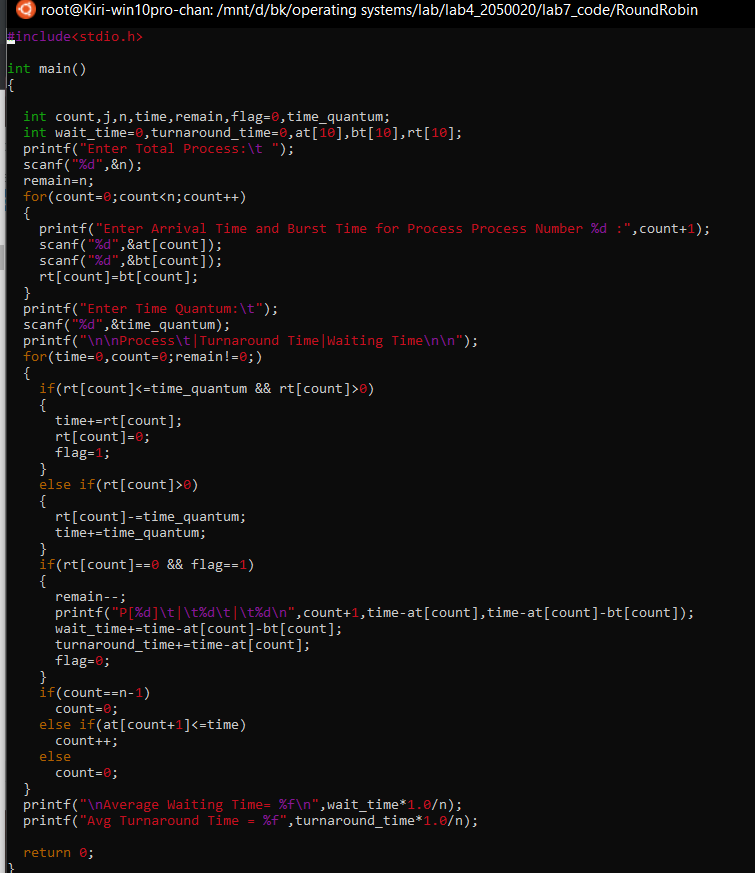
This is my work ( Full code is in the folder lab4\_2050020/problem1):

FIFO.c

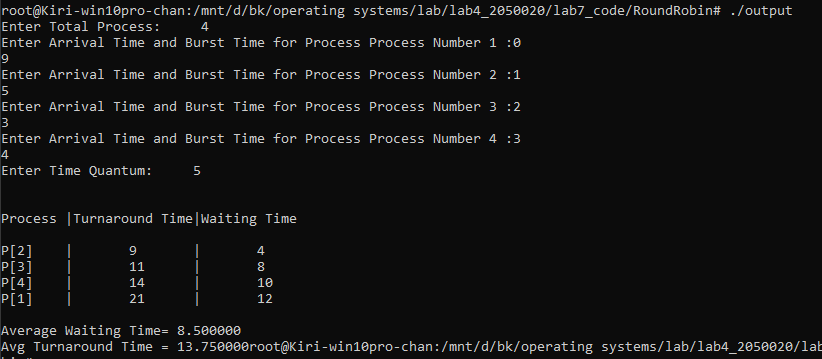


**And this is the output:**

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Secondly, this is the Round Robin algorithm: (round\_robin.c)****

And the result:

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1. **Write two programs for the Contiguous Memory Allocation using algorithm Bestfit and Worst-fit by completing the TODO part in the sample code.**

In this problem, I alter file mem.c:

- Finishing the TO DO part in

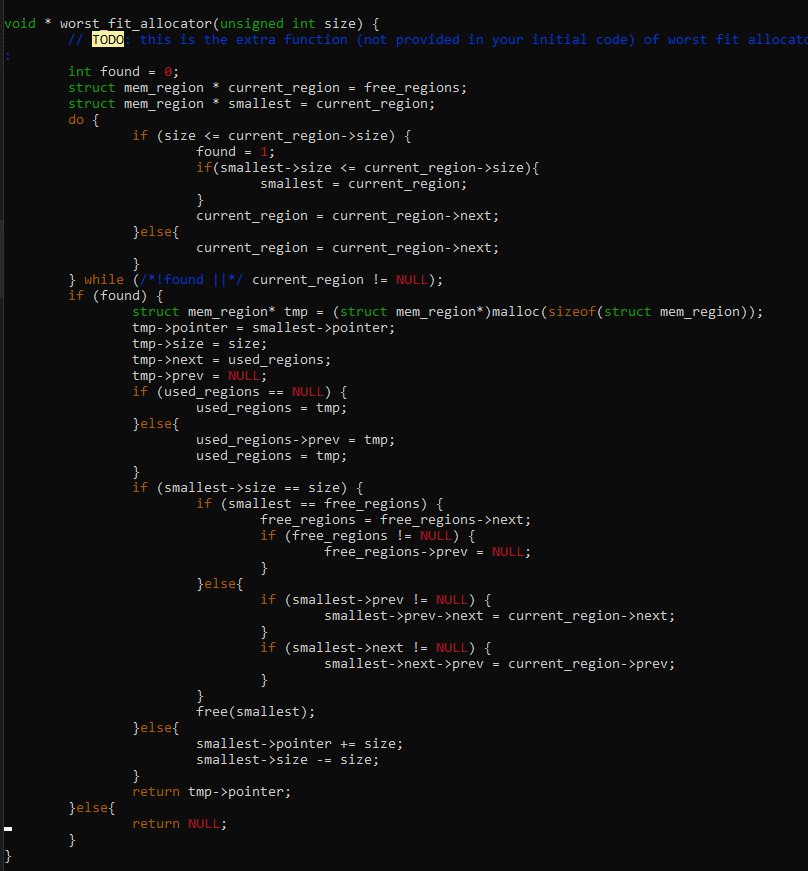
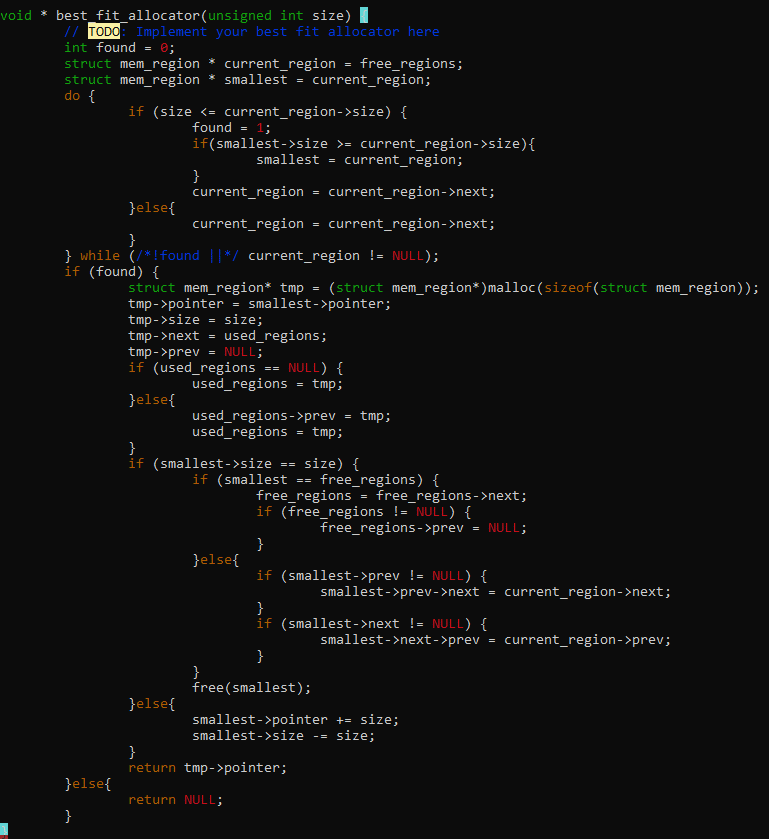
void \* best\_fit\_allocator(unsigned int size)

- Adding 1 more function:

void \* worst\_fit\_allocator(unsigned int size)

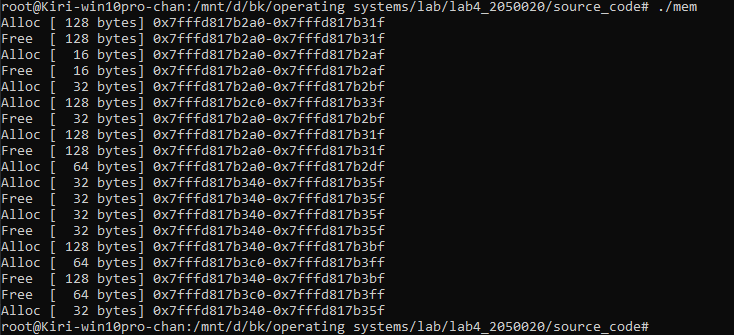
This is my work ( Full code is in the folder lab4\_2050020/problem2):

queue.c:

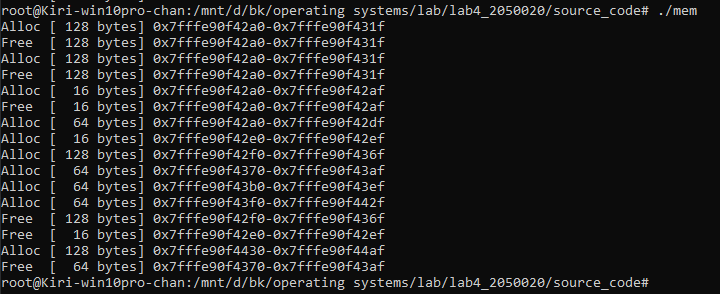


Therefore: the result of each stragergies:

Best-fit:



Worst-fit:



~This is the end of the report~