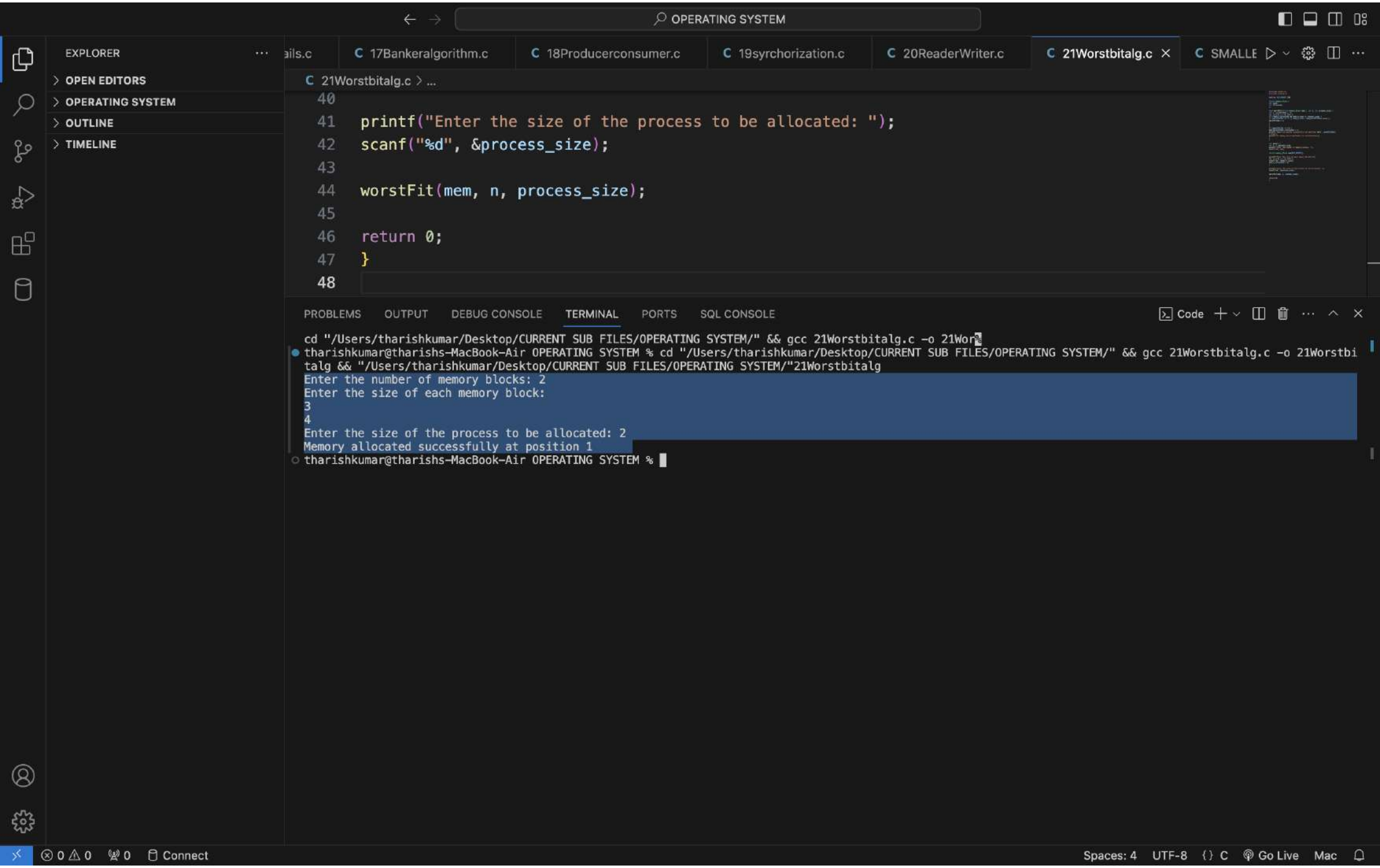
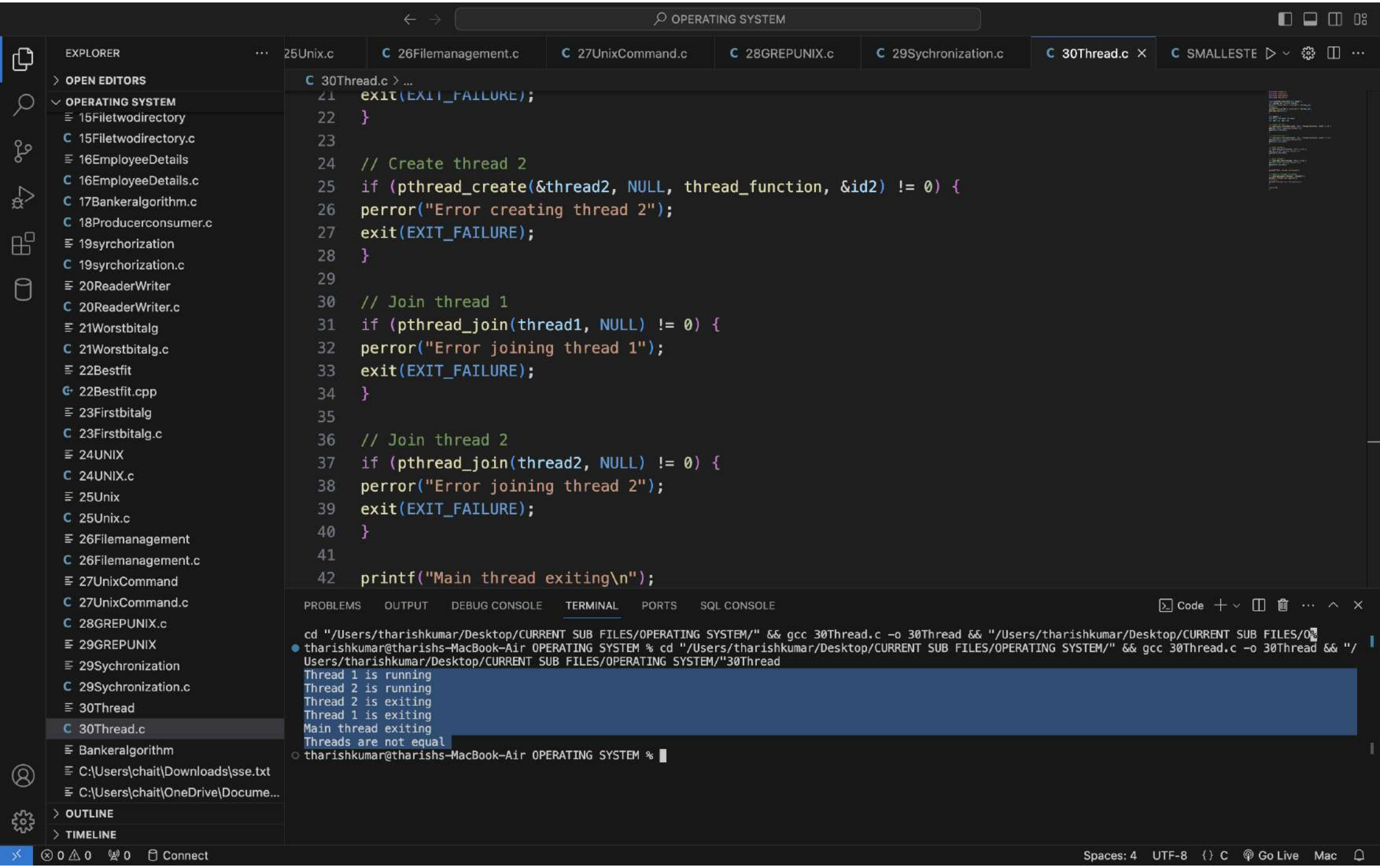
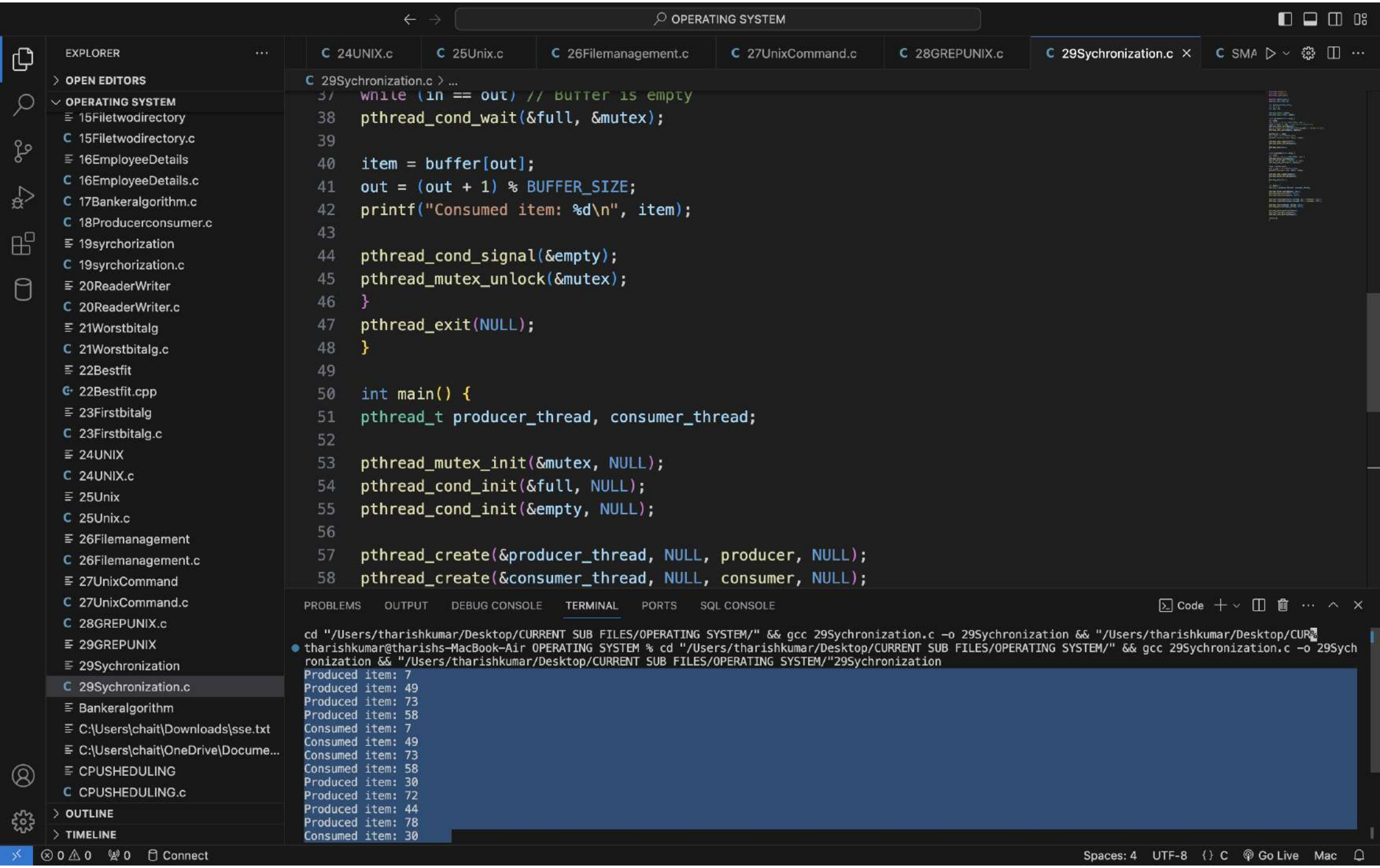
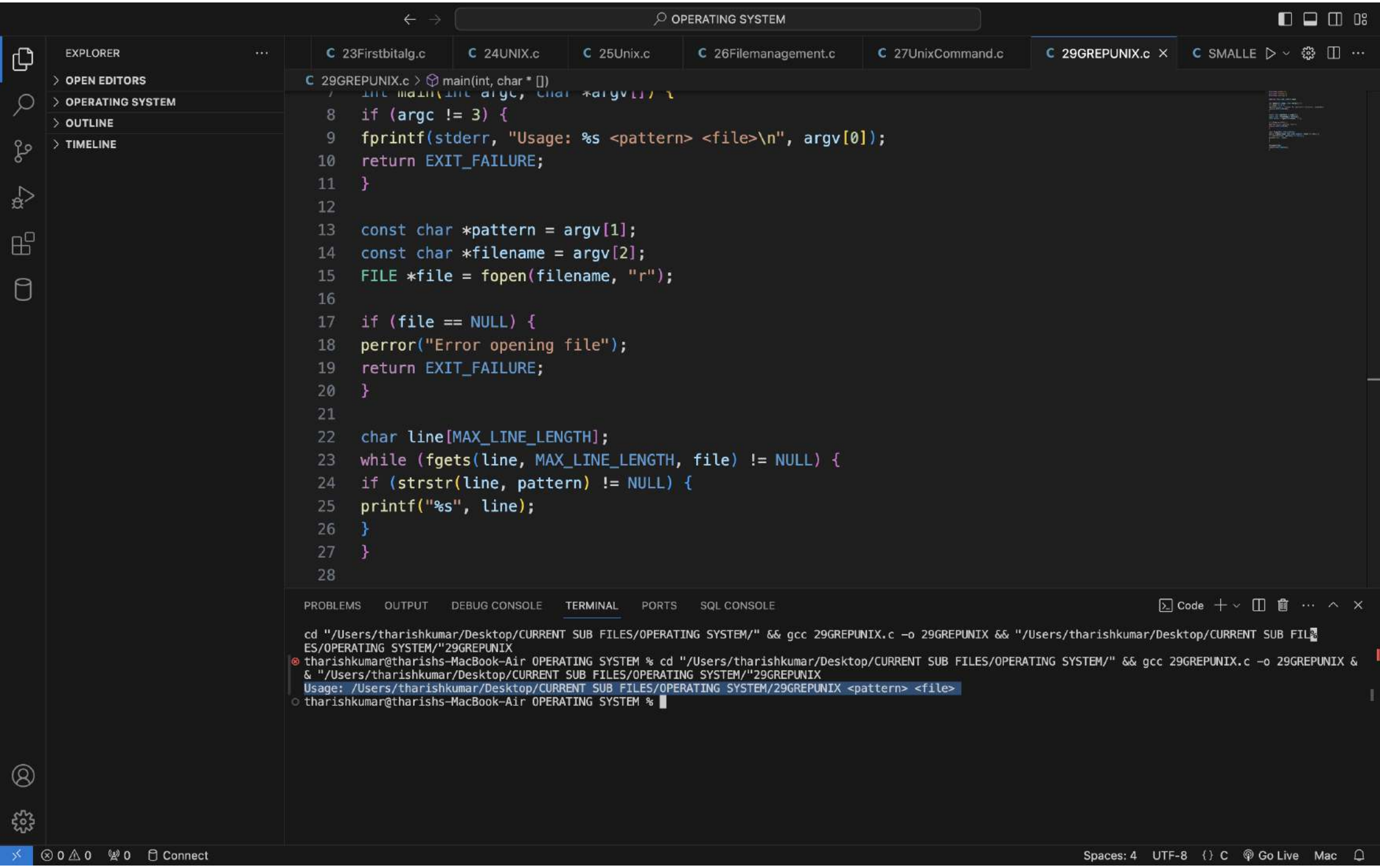
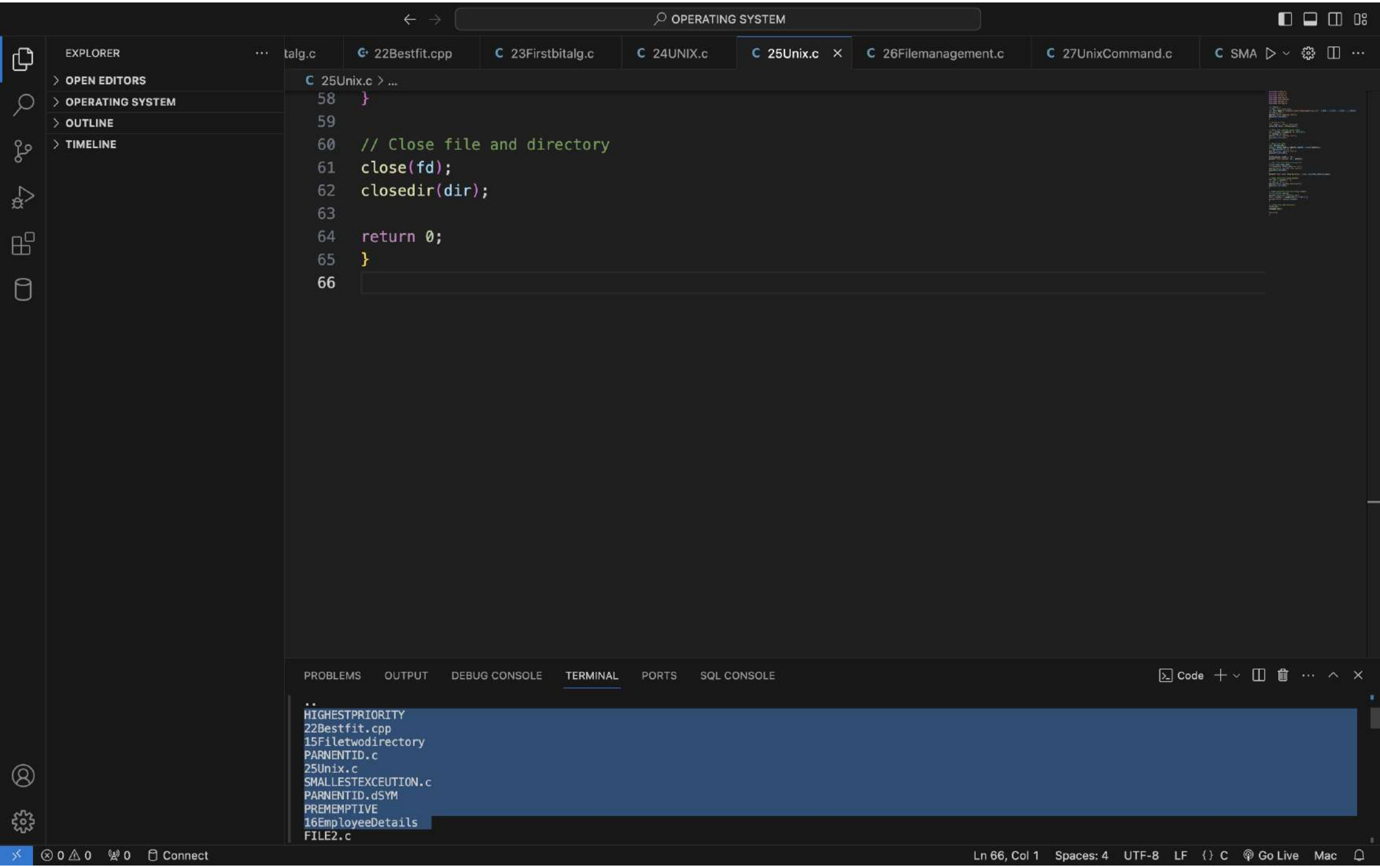
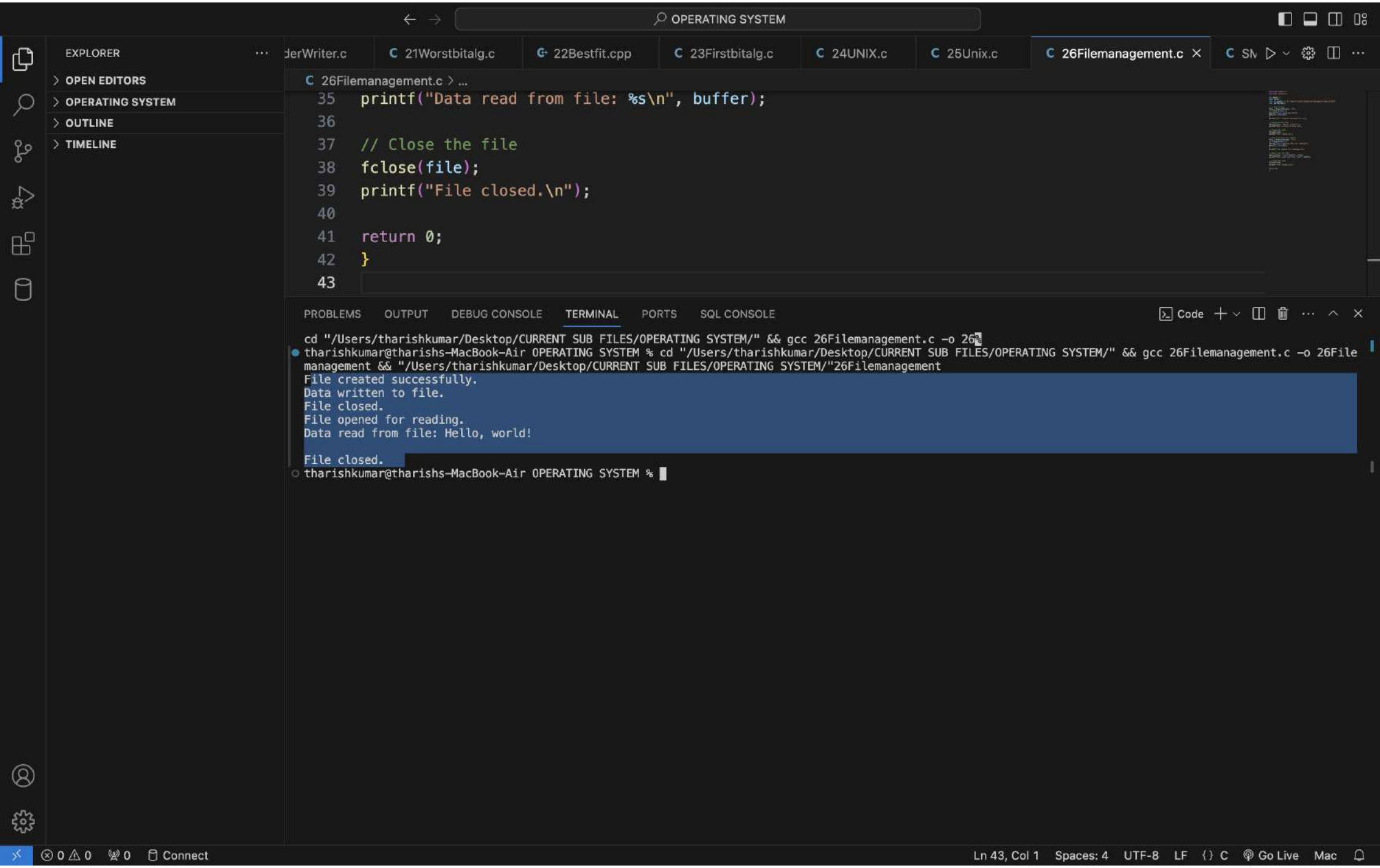

OPERATING SYSTEM
EXPLORER
OPEN EDITORS
OPERATING SYSTEM
OUTLINE
TIMELINE
ails.c
17Bankeralgorithm.c
18Producerconsumer.c
19syrchorization.c
20ReaderWriter.c
21Worstbitalg.c
SMALLE
21Worstbitalg.c > ...
40
41 printf("Enter the size of the process to be allocated: ");
42 scanf("%d", &process_size);
43
44 worstFit(mem, n, process_size);
45
46 return 0;
47 }
48
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
SQL CONSOLE
Code
cd "/Users/tharishkumar/Desktop/CURRENT SUB FILES/OPERATING SYSTEM/" && gcc 21Worstbitalg.c -o 21Wor
tharishkumar@tharishs-MacBook-Air OPERATING SYSTEM % cd "/Users/tharishkumar/Desktop/CURRENT SUB FILES/OPERATING SYSTEM/" && gcc 21Worstbitalg.c -o 21Worstbi
talg && "/Users/tharishkumar/Desktop/CURRENT SUB FILES/OPERATING SYSTEM/"21Worstbitalg
Enter the number of memory blocks: 2
Enter the size of each memory block:
3
4
Enter the size of the process to be allocated: 2
Memory allocated successfully at position 1
tharishkumar@tharishs-MacBook-Air OPERATING SYSTEM %
0 0 0
Connect
Spaces: 4
UTF-8
C
Go Live
Mac

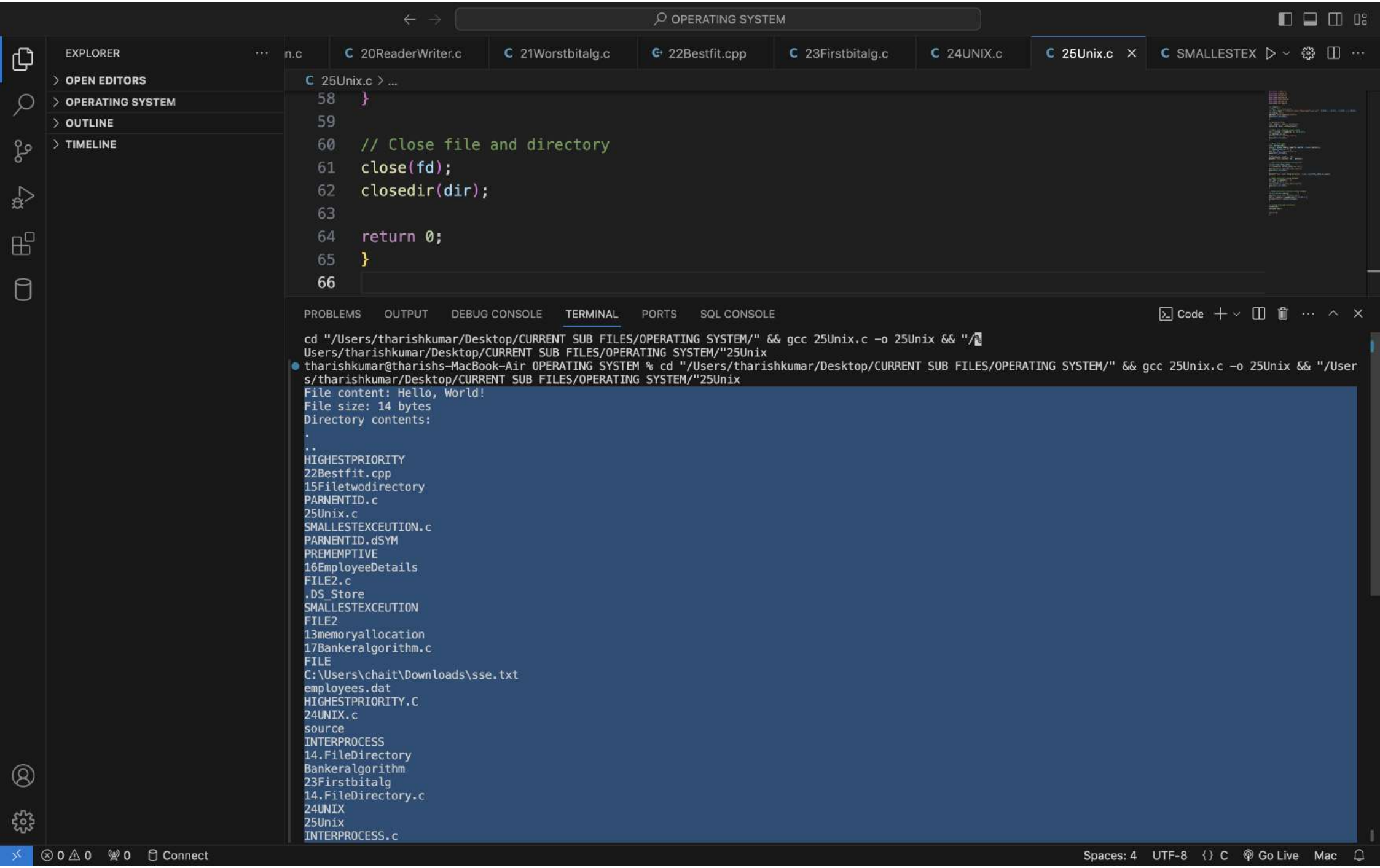

OPERATING SYSTEM
EXPLORER
OPEN EDITORS
OPERATING SYSTEM
15Filetwodirectory
15Filetwodirectory.c
16EmployeeDetails
16EmployeeDetails.c
17Bankeralgorithm.c
18Producerconsumer.c
19syrchorization
19syrchorization.c
20ReaderWriter
20ReaderWriter.c
21Worstbitalg
21Worstbitalg.c
22Bestfit
22Bestfit.cpp
23Firstbitalg
23Firstbitalg.c
24UNIX
24UNIX.c
25Unix
25Unix.c
26Filemanagement
26Filemanagement.c
27UnixCommand
27UnixCommand.c
28GREPUNIX.c
29GREPUNIX
29Sychronization
29Sychronization.c
30Thread
30Thread.c
Bankeralgorithm
C:\Users\chait\Downloads\sse.txt
C:\Users\chait\OneDrive\Docume...
OUTLINE
TIMELINE
25Unix.c
26Filemanagement.c
27UnixCommand.c
28GREPUNIX.c
29Sychronization.c
30Thread.c
SMALLESTE
30Thread.c > ...
exit(EXIT_FAILURE);
}
// Create thread 2
if (pthread_create(&thread2, NULL, thread_function, &id2) != 0) {
perror("Error creating thread 2");
exit(EXIT_FAILURE);
}
// Join thread 1
if (pthread_join(thread1, NULL) != 0) {
perror("Error joining thread 1");
exit(EXIT_FAILURE);
}
// Join thread 2
if (pthread_join(thread2, NULL) != 0) {
perror("Error joining thread 2");
exit(EXIT_FAILURE);
}
printf("Main thread exiting\n");
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
SQL CONSOLE
Code
cd "/Users/tharishkumar/Desktop/CURRENT SUB FILES/OPERATING SYSTEM/" && gcc 30Thread.c -o 30Thread && "/Users/tharishkumar/Desktop/CURRENT SUB FILES/O
tharishkumar@tharishs-MacBook-Air OPERATING SYSTEM % cd "/Users/tharishkumar/Desktop/CURRENT SUB FILES/OPERATING SYSTEM/" && gcc 30Thread.c -o 30Thread && "/
Users/tharishkumar/Desktop/CURRENT SUB FILES/OPERATING SYSTEM/"30Thread
Thread 1 is running
Thread 2 is running
Thread 2 is exiting
Thread 1 is exiting
Main thread exiting
Threads are not equal
tharishkumar@tharishs-MacBook-Air OPERATING SYSTEM %
0 0 0
Connect
Spaces: 4
UTF-8
C
Go Live
Mac

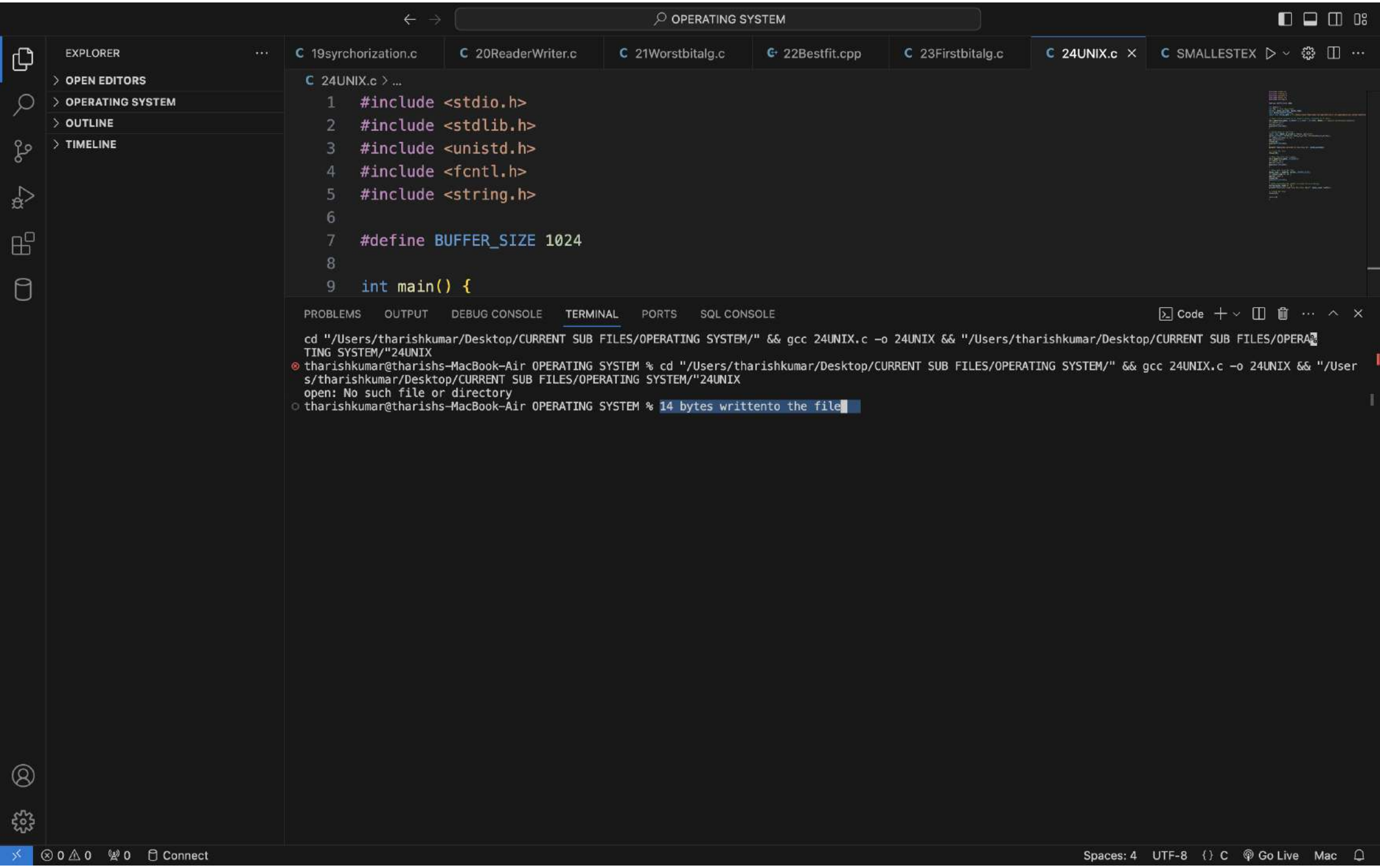

OPERATING SYSTEM
EXPLORER
OPEN EDITORS
OPERATING SYSTEM
15Filetwodirectory
15Filetwodirectory.c
16EmployeeDetails
16EmployeeDetails.c
17Bankeralgorithm.c
18Producerconsumer.c
19syrchorization
19syrchorization.c
20ReaderWriter
20ReaderWriter.c
21Worstbitalg
21Worstbitalg.c
22Bestfit
22Bestfit.cpp
23Firstbitalg
23Firstbitalg.c
24UNIX
24UNIX.c
25Unix
25Unix.c
26Filemanagement
26Filemanagement.c
27UnixCommand
27UnixCommand.c
28GREPUNIX.c
29GREPUNIX
29Sychronization
29Sychronization.c
Bankeralgorithm
C:\Users\chait\Downloads\sse.txt
C:\Users\chait\OneDrive\Docume...
CPUSHEDULING
CPUSHEDULING.c
OUTLINE
TIMELINE
24UNIX.c
25Unix.c
26Filemanagement.c
27UnixCommand.c
28GREPUNIX.c
29Sychronization.c
SMA
29Sychronization.c > ...
while (in == out) // Buffer is empty
pthread_cond_wait(&full, &mutex);
item = buffer[out];
out = (out + 1) % BUFFER_SIZE;
printf("Consumed item: %d\n", item);
pthread_cond_signal(&empty);
pthread_mutex_unlock(&mutex);
}
pthread_exit(NULL);
}
int main() {
pthread_t producer_thread, consumer_thread;
pthread_mutex_init(&mutex, NULL);
pthread_cond_init(&full, NULL);
pthread_cond_init(&empty, NULL);
pthread_create(&producer_thread, NULL, producer, NULL);
pthread_create(&consumer_thread, NULL, consumer, NULL);
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
SQL CONSOLE
Code
cd "/Users/tharishkumar/Desktop/CURRENT SUB FILES/OPERATING SYSTEM/" && gcc 29Sychronization.c -o 29Sychronization && "/Users/tharishkumar/Desktop/CUR
tharishkumar@tharishs-MacBook-Air OPERATING SYSTEM % cd "/Users/tharishkumar/Desktop/CURRENT SUB FILES/OPERATING SYSTEM/" && gcc 29Sychronization.c -o 29Sych
ronization && "/Users/tharishkumar/Desktop/CURRENT SUB FILES/OPERATING SYSTEM/"29Sychronization
Produced item: 7
Produced item: 49
Produced item: 73
Produced item: 58
Consumed item: 7
Consumed item: 49
Consumed item: 73
Consumed item: 58
Produced item: 30
Produced item: 72
Produced item: 44
Produced item: 78
Consumed item: 30
0 0 0
Connect
Spaces: 4
UTF-8
C
Go Live
Mac

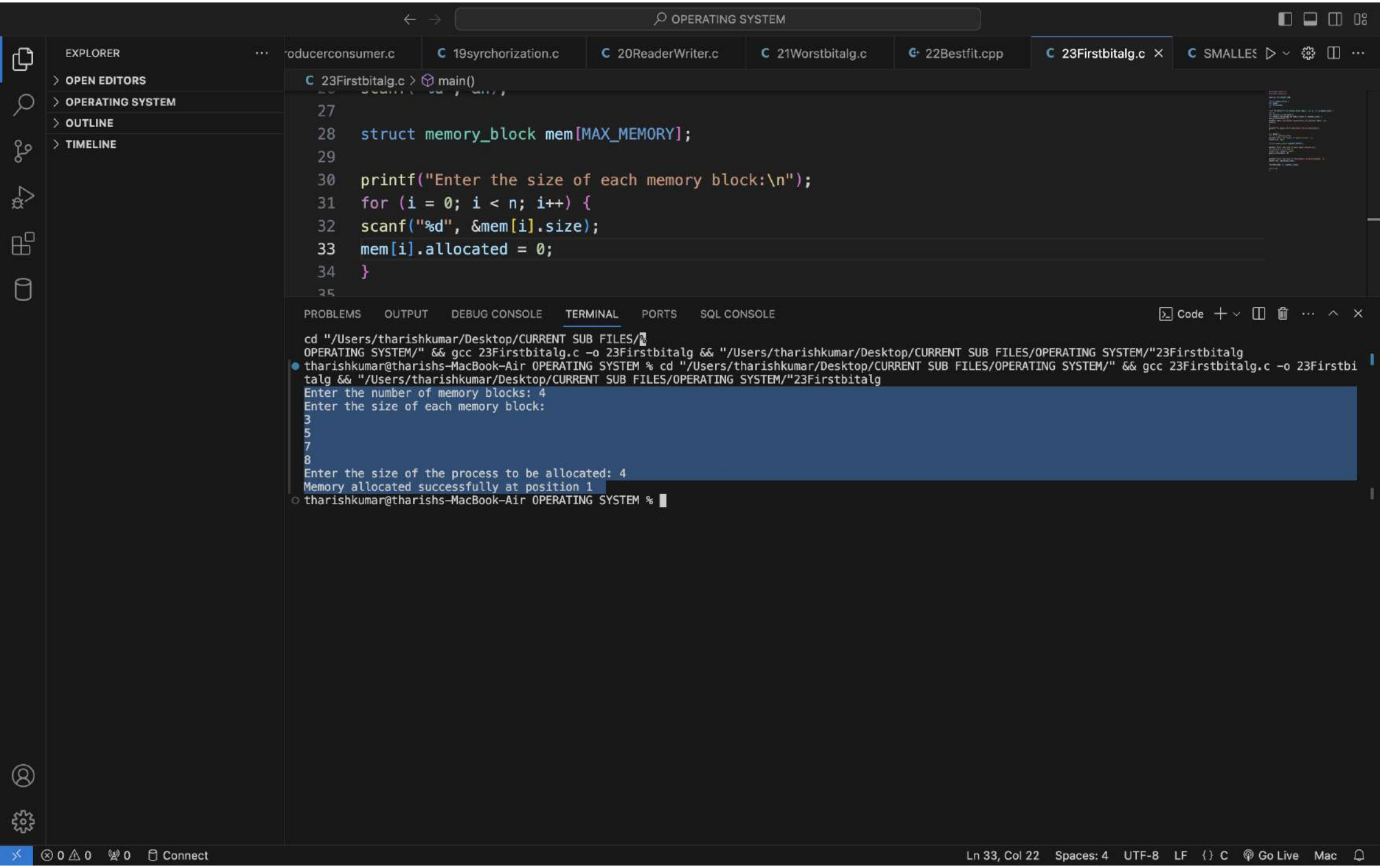

OPERATING SYSTEM
EXPLORER
OPEN EDITORS
OPERATING SYSTEM
OUTLINE
TIMELINE
23Firstbitalg.c
24UNIX.c
25Unix.c
26Filemanagement.c
27UnixCommand.c
29GREPUNIX.c
SMALLE
29GREPUNIX.c > main(int, char * [])
8 if (argc != 3) {
9 fprintf(stderr, "Usage: %s <pattern> <file>\n", argv[0]);
10 return EXIT_FAILURE;
11 }
12
13 const char *pattern = argv[1];
14 const char *filename = argv[2];
15 FILE *file = fopen(filename, "r");
16
17 if (file == NULL) {
18 perror("Error opening file");
19 return EXIT_FAILURE;
20 }
21
22 char line[MAX_LINE_LENGTH];
23 while (fgets(line, MAX_LINE_LENGTH, file) != NULL) {
24 if (strstr(line, pattern) != NULL) {
25 printf("%s", line);
26 }
27 }
28
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
SQL CONSOLE
Code
cd "/Users/tharishkumar/Desktop/CURRENT SUB FILES/OPERATING SYSTEM/" && gcc 29GREPUNIX.c -o 29GREPUNIX && "/Users/tharishkumar/Desktop/CURRENT SUB FILES/OPERATING SYSTEM/"29GREPUNIX
tharishkumar@tharishs-MacBook-Air OPERATING SYSTEM % cd "/Users/tharishkumar/Desktop/CURRENT SUB FILES/OPERATING SYSTEM/" && gcc 29GREPUNIX.c -o 29GREPUNIX && "/Users/tharishkumar/Desktop/CURRENT SUB FILES/OPERATING SYSTEM/"29GREPUNIX
Usage: /Users/tharishkumar/Desktop/CURRENT SUB FILES/OPERATING SYSTEM/29GREPUNIX <pattern> <file>
tharishkumar@tharishs-MacBook-Air OPERATING SYSTEM %
0 0 0 Connect
Spaces: 4 UTF-8 C Go Live Mac

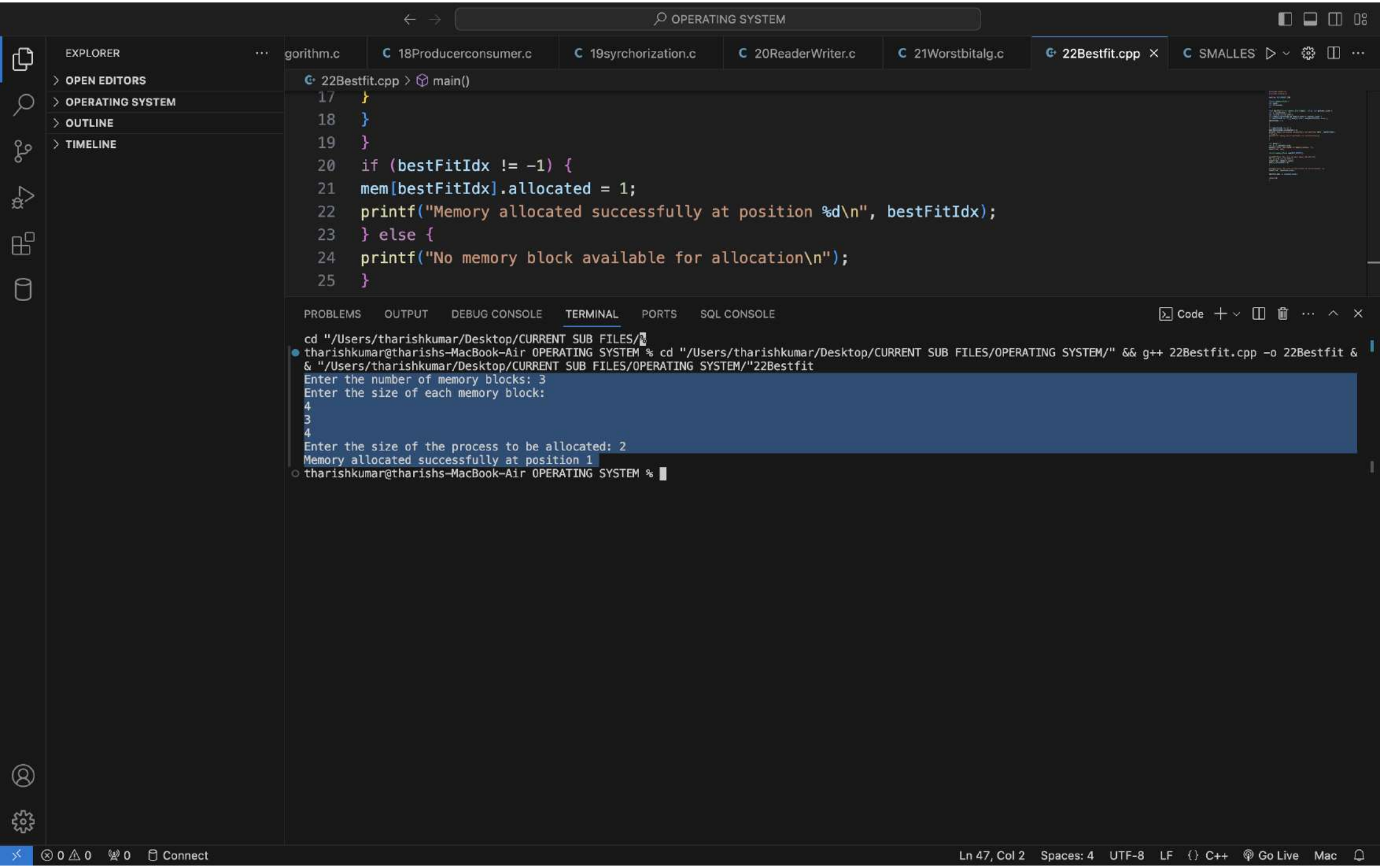

OPERATING SYSTEM
EXPLORER
OPEN EDITORS
OPERATING SYSTEM
OUTLINE
TIMELINE
22Bestfit.cpp
23Firstbitalg.c
24UNIX.c
25Unix.c
26Filemanagement.c
27UnixCommand.c
SMA
25Unix.c > ...
58 }
59
60 // Close file and directory
61 close(fd);
62 closedir(dir);
63
64 return 0;
65 }
66
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
SQL CONSOLE
Code
..
HIGHESTPRIORITY
22Bestfit.cpp
15Filetwodirectory
PARNENTID.c
25Unix.c
SMALLESTEXCEUTION.c
PARNENTID.dSYM
PREMEMPTIVE
16EmployeeDetails
FILE2.c
0 0
0
Connect
Ln 66, Col 1
Spaces: 4
UTF-8
LF
C
Go Live
Mac


OPERATING SYSTEM
EXPLORER
OPEN EDITORS
OPERATING SYSTEM
OUTLINE
TIMELINE
derWriter.c
21Worstbitalg.c
22Bestfit.cpp
23Firstbitalg.c
24UNIX.c
25Unix.c
26Filemanagement.c
26Filemanagement.c > ...
35 printf("Data read from file: %s\n", buffer);
36
37 // Close the file
38 fclose(file);
39 printf("File closed.\n");
40
41 return 0;
42 }
43
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
SQL CONSOLE
Code
cd "/Users/tharishkumar/Desktop/CURRENT SUB FILES/OPERATING SYSTEM/" && gcc 26Filemanagement.c -o 26
tharishkumar@tharishs-MacBook-Air OPERATING SYSTEM % cd "/Users/tharishkumar/Desktop/CURRENT SUB FILES/OPERATING SYSTEM/" && gcc 26Filemanagement.c -o 26File
management && "/Users/tharishkumar/Desktop/CURRENT SUB FILES/OPERATING SYSTEM/"26Filemanagement
File created successfully.
Data written to file.
File closed.
File opened for reading.
Data read from file: Hello, world!
File closed.
tharishkumar@tharishs-MacBook-Air OPERATING SYSTEM %
0 0 0 Connect
Ln 43, Col 1
Spaces: 4
UTF-8
LF
C
Go Live
Mac


OPERATING SYSTEM
EXPLORER
OPEN EDITORS
OPERATING SYSTEM
OUTLINE
TIMELINE
n.c
20ReaderWriter.c
21Worstbitalg.c
22Bestfit.cpp
23Firstbitalg.c
24UNIX.c
25Unix.c
SMALLESTEX
25Unix.c > ...
58 }
59
60 // Close file and directory
61 close(fd);
62 closedir(dir);
63
64 return 0;
65 }
66
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
SQL CONSOLE
Code
cd "/Users/tharishkumar/Desktop/CURRENT SUB FILES/OPERATING SYSTEM/" && gcc 25Unix.c -o 25Unix && "/
Users/tharishkumar/Desktop/CURRENT SUB FILES/OPERATING SYSTEM/"25Unix
tharishkumar@tharishs-MacBook-Air OPERATING SYSTEM % cd "/Users/tharishkumar/Desktop/CURRENT SUB FILES/OPERATING SYSTEM/" && gcc 25Unix.c -o 25Unix && "/User
s/tharishkumar/Desktop/CURRENT SUB FILES/OPERATING SYSTEM/"25Unix
File content: Hello, World!
File size: 14 bytes
Directory contents:
.
..
HIGHESTPRIORITY
22Bestfit.cpp
15Filetwodirectory
PARNENTID.c
25Unix.c
SMALLESTEXCEUTION.c
PARNENTID.dSYM
PREMEMPTIVE
16EmployeeDetails
FILE2.c
.DS_Store
SMALLESTEXCEUTION
FILE2
13memoryallocation
17Bankeralgorithm.c
FILE
C:\Users\chait\Downloads\sse.txt
employees.dat
HIGHESTPRIORITY.C
24UNIX.c
source
INTERPROCESS
14.FileDirectory
Bankeralgorithm
23Firstbitalg
14.FileDirectory.c
24UNIX
25Unix
INTERPROCESS.c
0 0
0
Connect
Spaces: 4
UTF-8
C
Go Live
Mac


OPERATING SYSTEM
EXPLORER
OPEN EDITORS
OPERATING SYSTEM
OUTLINE
TIMELINE
19syrchorization.c
20ReaderWriter.c
21Worstbitalg.c
22Bestfit.cpp
23Firstbitalg.c
24UNIX.c
SMALLESTEX
24UNIX.c > ...
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <fcntl.h>
#include <string.h>
#define BUFFER_SIZE 1024
int main() {
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
SQL CONSOLE
Code
cd "/Users/tharishkumar/Desktop/CURRENT SUB FILES/OPERATING SYSTEM/" && gcc 24UNIX.c -o 24UNIX && "/Users/tharishkumar/Desktop/CURRENT SUB FILES/OPERATING SYSTEM/"24UNIX
tharishkumar@tharishs-MacBook-Air OPERATING SYSTEM % cd "/Users/tharishkumar/Desktop/CURRENT SUB FILES/OPERATING SYSTEM/" && gcc 24UNIX.c -o 24UNIX && "/Users/tharishkumar/Desktop/CURRENT SUB FILES/OPERATING SYSTEM/"24UNIX
open: No such file or directory
tharishkumar@tharishs-MacBook-Air OPERATING SYSTEM % 14 bytes writtento the file
0 0 0 Connect
Spaces: 4 UTF-8 C Go Live Mac


OPERATING SYSTEM
EXPLORER
OPEN EDITORS
OPERATING SYSTEM
OUTLINE
TIMELINE
roducerconsumer.c
19syrchorization.c
20ReaderWriter.c
21Worstbitalg.c
22Bestfit.cpp
23Firstbitalg.c
SMALLES
23Firstbitalg.c > main()
27
28 struct memory_block mem[MAX_MEMORY];
29
30 printf("Enter the size of each memory block:\n");
31 for (i = 0; i < n; i++) {
32 scanf("%d", &mem[i].size);
33 mem[i].allocated = 0;
34 }
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
SQL CONSOLE
Code
cd "/Users/tharishkumar/Desktop/CURRENT SUB FILES/"
OPERATING SYSTEM/" && gcc 23Firstbitalg.c -o 23Firstbitalg && "/Users/tharishkumar/Desktop/CURRENT SUB FILES/OPERATING SYSTEM/"23Firstbitalg
tharishkumar@tharishs-MacBook-Air OPERATING SYSTEM % cd "/Users/tharishkumar/Desktop/CURRENT SUB FILES/OPERATING SYSTEM/" && gcc 23Firstbitalg.c -o 23Firstbi
talg && "/Users/tharishkumar/Desktop/CURRENT SUB FILES/OPERATING SYSTEM/"23Firstbitalg
Enter the number of memory blocks: 4
Enter the size of each memory block:
3
5
7
8
Enter the size of the process to be allocated: 4
Memory allocated successfully at position 1
tharishkumar@tharishs-MacBook-Air OPERATING SYSTEM %
0 0 0 Connect
Ln 33, Col 22 Spaces: 4 UTF-8 LF C Go Live Mac


OPERATING SYSTEM
EXPLORER
OPEN EDITORS
OPERATING SYSTEM
OUTLINE
TIMELINE
gorithm.c
18Producerconsumer.c
19syrchorization.c
20ReaderWriter.c
21Worstbitalg.c
22Bestfit.cpp
SMALLES
22Bestfit.cpp > main()
}
}
}
if (bestFitIdx != -1) {
mem[bestFitIdx].allocated = 1;
printf("Memory allocated successfully at position %d\n", bestFitIdx);
} else {
printf("No memory block available for allocation\n");
}
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
SQL CONSOLE
Code
cd "/Users/tharishkumar/Desktop/CURRENT SUB FILES/"
tharishkumar@tharishs-MacBook-Air OPERATING SYSTEM % cd "/Users/tharishkumar/Desktop/CURRENT SUB FILES/OPERATING SYSTEM/" && g++ 22Bestfit.cpp -o 22Bestfit &
& "/Users/tharishkumar/Desktop/CURRENT SUB FILES/OPERATING SYSTEM/"22Bestfit
Enter the number of memory blocks: 3
Enter the size of each memory block:
4
3
4
Enter the size of the process to be allocated: 2
Memory allocated successfully at position 1
tharishkumar@tharishs-MacBook-Air OPERATING SYSTEM %
0 0 0 Connect
Ln 47, Col 2
Spaces: 4
UTF-8
LF
C++
Go Live
Mac