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main.c

8 return NULL;

9 }

10

11 int main() {

12 pthread\_t threads[3];

13 int thread\_args[3];

14

15 for (int i = 0; i < 3; i++) {

16 thread\_args[i] = i + 1;

17 if (pthread\_create(&threads[i], NULL, print\_hello,

18 &thread\_args[i]) != 0) {

19 perror("pthread\_create");

20 exit(1);

21 }

22

23 for (int i = 0; i < 3; i++) {

24 if (pthread\_join(threads[i], NULL) != 0) {

25 perror("pthread\_join");

26 exit(1);

27 }

28 }

29

30 printf("All threads completed.\n");

31 return 0;

32 }

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Output

Clear

Hello from thread 1!  
Hello from thread 2!  
Hello from thread 3!  
All threads completed.

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main.c

Run

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```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <string.h>
4
5 #define MAX_MEMORY 1000
6
7 void first_fit(int block_sizes[], int blocks, int process_sizes[],
8 int processes) {
9     printf("First Fit Allocation:\n");
10    int allocation[processes];
11    memset(allocation, -1, sizeof(allocation));
12
13    for (int i = 0; i < processes; i++) {
14        for (int j = 0; j < blocks; j++) {
15            if (block_sizes[j] >= process_sizes[i]) {
16                allocation[i] = j;
17                block_sizes[j] -= process_sizes[i];
18                break;
19            }
20        }
21    }
22
23    for (int i = 0; i < processes; i++) {
24        printf("Process %d -> Block %d\n", i, allocation[i] + 1);
25    }
26 }
```

Output

First Fit Allocation:  
Process 0 -> Block 2  
Process 1 -> Block 5  
Process 2 -> Block 2  
Process 3 -> Block 0

Best Fit Allocation:  
Process 0 -> Block 4  
Process 1 -> Block 2  
Process 2 -> Block 3  
Process 3 -> Block 5

Worst Fit Allocation:  
Process 0 -> Block 5  
Process 1 -> Block 2  
Process 2 -> Block 5  
Process 3 -> Block 0

=== Code Execution Successful ===

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