

main.c

Output



```
Thread 1 is running  
Thread 2 is running  
Thread 4 is running  
Thread 3 is running  
All threads completed.
```

```
=== Code Execution Successful ===
```

main.c

Output



Step 1: 1 _ _

Step 2: 1 3 _

Step 3: 1 3 0

Step 4: 1 3 0

Step 5: 5 3 0

Step 6: 5 6 0

Step 7: 5 6 3

Total Page Faults: 6

=== Code Execution Successful ===

main.c

Output



Step 1: 7 _ _

Step 2: 7 0 _

Step 3: 7 0 1

Step 4: 2 0 1

Step 5: 2 0 1

Step 6: 2 0 3

Step 7: 2 0 3

Step 8: 4 0 3

Step 9: 4 0 2

Total Page Faults = 7

=== Code Execution Successful ===

main.c

Output



Enter number of files: 2

File 1

Enter starting block and length: 10 5

File allocated from block 10 to 14

File 2

Enter starting block and length: 12 4

Allocation failed for File 2 (block(s) already allocated)

Final Memory Status:

```
0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0
    0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
    0 0
```

=== Code Execution Successful ===

main.c

Output



Step 1: 7 _ _

Step 2: 7 0 _

Step 3: 7 0 1

Step 4: 2 0 1

Step 5: 2 0 1

Step 6: 2 0 3

Step 7: 2 0 3

Step 8: 2 4 3

Step 9: 2 4 3

Total Page Faults = 6

=== Code Execution Successful ===