main.c Output

```
Enter number of processes: 3
Enter burst times:
P1: 10
P2: 5
P3: 8
Enter time quantum: 5

Process Burst   Waiting Turnaround
P1  10  10  20
P2  5   5   10
P3  8   15  23


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

main.c Output

```
Parent received: Hello from child


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

main.c Output

```
Philosopher 0 is thinking
Philosopher 1 is thinking
Philosopher 3 is thinking
Philosopher 4 is thinking
Philosopher 2 is thinking
Philosopher 0 is hungry
Philosopher 0 is eating
Philosopher 1 is hungry
Philosopher 3 is hungry
Philosopher 3 is eating
Philosopher 4 is hungry
Philosopher 2 is hungry
Philosopher 0 has finished eating
Philosopher 0 is thinking
Philosopher 3 has finished eating
Philosopher 3 is thinking
Philosopher 4 is eating
Philosopher 2 is eating
Philosopher 0 is hungry
Philosopher 3 is hungry
Philosopher 4 has finished eating
Philosopher 2 has finished eating
Philosopher 4 is thinking
Philosopher 1 is eating
Philosopher 2 is thinking
Philosopher 3 is eating
Philosopher 4 is hungry
Philosopher 2 is hungry
Philosopher 1 has finished eating
Philosopher 1 is thinking
Philosopher 3 has finished eating
Philosopher 3 is thinking
```

main.c Output

```
System is in a safe state.
Safe sequence: P1 P3 P4 P0 P2


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

main.c Output

```
Producer produced: 83
Consumer consumed: 83
Producer produced: 86
Consumer consumed: 86
Producer produced: 77
Producer produced: 15
Consumer consumed: 77
Producer produced: 93
Producer produced: 35
Consumer consumed: 15
Producer produced: 86
Producer produced: 92
Consumer consumed: 93
Producer produced: 49
Producer produced: 21
Consumer consumed: 35
Producer produced: 62
Consumer consumed: 86
Producer produced: 27
Consumer consumed: 92
Producer produced: 90
Consumer consumed: 49
Producer produced: 59
Consumer consumed: 21
Producer produced: 63
Consumer consumed: 62
Producer produced: 26
Consumer consumed: 27
Producer produced: 40
Consumer consumed: 90
Producer produced: 26
Consumer consumed: 59
```