

```

500 // Q
1 // C=> N=2
add_tasks 2 1000 2
add_tasks 3 500 3
print waiting
run 500
print finished
print running
run 250
print running
get_task 1
get_thread 1
run 400
print running
print finished
finish

```

```

Task created successfully : ID 1.
Task created successfully : ID 2.
Task created successfully : ID 3.
Task created successfully : ID 4.
Task created successfully : ID 5.
===== Waiting queue =====
[(3: priority = 3, remaining_time = 500),
(4: priority = 3, remaining_time = 500),
(5: priority = 3, remaining_time = 500),
(1: priority = 2, remaining_time = 1000),
(2: priority = 2, remaining_time = 1000)]
Running tasks for 500 ms...
===== Finished queue =====
[(3: priority = 3, executed_time = 500),
(4: priority = 3, executed_time = 500)]
===== Running in parallel =====
[(5: priority = 3, remaining_time = 500, running_thread = 1),
(1: priority = 2, remaining_time = 1000, running_thread = 0)]
Running tasks for 250 ms...
===== Running in parallel =====
[(5: priority = 3, remaining_time = 250, running_thread = 1),
(1: priority = 2, remaining_time = 750, running_thread = 0)]
Task 1 is running (remaining_time = 750).
Thread 1 is running task 5 (remaining_time = 250).
Running tasks for 400 ms...
===== Running in parallel =====
[(1: priority = 2, remaining_time = 350, running_thread = 0),
(2: priority = 2, remaining_time = 1000, running_thread = 1)]
===== Finished queue =====
[(3: priority = 3, executed_time = 500),
(4: priority = 3, executed_time = 500),
(5: priority = 3, executed_time = 500)]
Total time: 2150

```