Scheduler Interview Problem

Design a scheduler that receives a task and places it in the correct priority among all the existing scheduled tasks.

A task’s position in the list is determined first by the urgency parameter (an integer from 0 - 5 where 0 is the most urgent). When two tasks have the same urgency, we look at it’s category. Categories are: RED (highest priority), BLUE and GREEN. When we have two tasks have the same urgency and category, we then look at time submitted, putting the one with the earlier timestamp first.

**E.g., Given the following tasks:**

**Task 1**  
 Urgency 0

 Category RED

 Time 12:00

**Task 2**

 Urgency 0

 Category RED

 Time 12:01

They would be sorted Task 1, Task 2

Given the additional tasks:

**Task 3**  
 Urgency 3

 Category RED

 Time 12:05

**Task 4**

 Urgency 1

 Category GREEN

 Time 12:06

The order would be: Task1, Task2, Task 4, Task 3.

The Task class and a main method that runs Tasks through your code will be provided.