The mission for the robots in the hospital scenario requires to complete the following tasks in the indicated locations:

* Do composite task ct1 in RoomA
* Do composite task ct1 in RoomB
* Do atomic task at3 in RoomD
* Do composite task ct2 in RoomC

The tasks represent:

* Composite task ct1 = Clean the room by doing tasks at1 and at2, consecutively (regarding the order)
* Composite task ct2 = Clean patient room by doing tasks at4 and ct1, consecutively and in this order.
* Atomic task at1 = Clean the floor. It requires 1 robot and has an average duration of 30 min.
* Atomic task at2 = Sanitize the room. It requires 1 robot and has an average duration of 60 min.
* Atomic task at3 = Move medical equipment. It requires 2 robot and has an average duration of 40 min.
* Atomic task at4 = Ask permission to the patient. It requires 1 robot and has an average duration of 5 min.

There are four robots [r1,r2,r3,r4], each robot with:

* Robot r1 is a cleaner robot, located at “warehouse1”
* Robot r2 is a cleaner robot, located at “warehouse2”
* Robot r3 is a pick-and-place robot, located at “warehouse3”
* Robot r4 is a pick-and-place robot, located at “warehouse4”