1. (60%) For two periodic tasks P_1 and P_2, P_1 has its period 30 and execution time 15, and P_2 has its period 50 and execution time 20. Assume P_1 and P_2 are ready at time 0. Please draw the scheduling results from time 0 to 150 for (a) the RM scheduling and (b) the EDF scheduling. For EDF, if two tasks have the same deadline, the task having a shorter period is assigned a higher priority.

Answer:
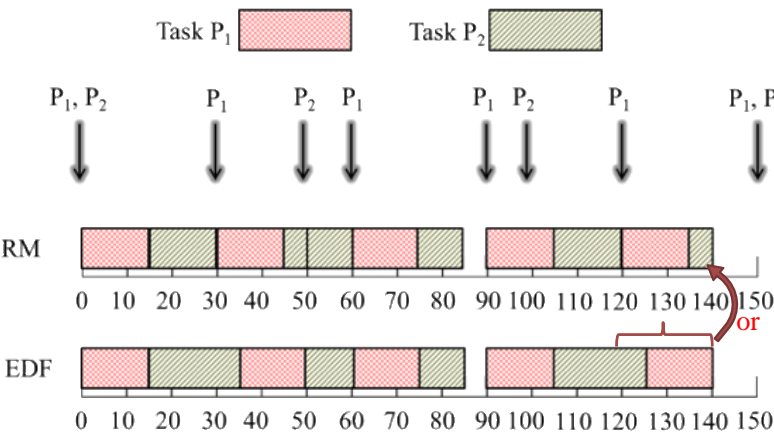
2. (60%) For three periodic tasks P_1, P_2 and P_3, P_1 has its period 30 and execution time 10, P_2 has its period 50 and execution time 15, and P_3 has its period 75 and execution time 20. Assume P_1 ,P_2 and P_3 are ready at time 0. Please draw the scheduling results from time 0 to 150 for (a) the RM scheduling and (b) the EDF scheduling. For EDF, if two tasks have the same deadline, the task having a shorter period is assigned a higher priority.

Answer: (a)

(b)