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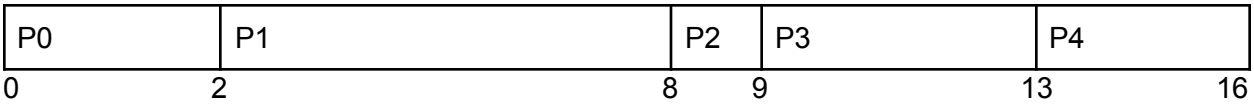
Exam 1: Question 12

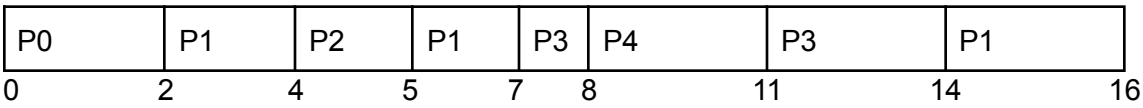
FCFS:
Gantt Chart



Waiting Time for P0 = 0, P1 = 2, P2 = 8, P3 = 9, P4 = 13
Avg Waiting Time = (0 + 2 + 8 + 9 + 13) / 5 = **6.4**

ResponseTime for
P0 = 0,
P1 = 1,
P2 = 4,
P3 = 2,
P4 = 5
Avg Response Time = (0 + 1 + 4 + 2 + 5) / 5 = **2.4**

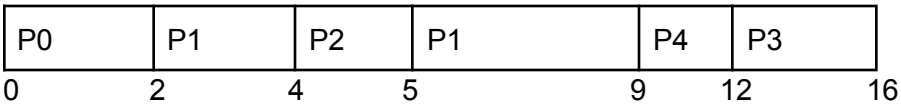
SJF:
Gantt Chart



Waiting Time for
P0 = 0,
P1 = 2 + (5 - 2) + (14 - 4) = 15
P2 = 4
P3 = 7 + (11 - 2) = 16
P4 = 8
Avg Waiting Time = (0 + 15 + 4 + 16 + 8) / 5 = **8.6**

ResponseTime for
P0 = 0,
P1 = 1,
P2 = 0,
P3 = 0,
P4 = 0
Avg Response Time = (0 + 1 + 0 + 0 + 0) / 5 = **0.2**

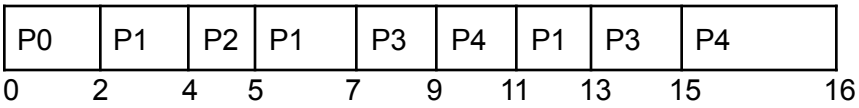
SRTF:
Gantt Chart



Waiting Time for
P0 = 0,
P1 = 2 + (5 - 2) = 5
P2 = 4,
P3 = 12,
P4 = 9
Avg Waiting Time = (0 + 5 + 4 + 12 + 9) / 5 = **6**

ResponseTime for
P0 = 0,
P1 = 1,
P2 = 0,
P3 = 5,
P4 = 1
Avg Response Time = (0 + 1 + 0 + 5 + 1) / 5 = **1.4**

RR (Quantum 2):
Gantt Chart



Waiting Time for
P0 = 0
P1 = 2 + (5 - 2) + (11 - 4) = 12
P2 = 4
P3 = 7 + (13 - 2) = 18
P4 = 9 + (15 - 2) = 22
Avg Waiting Time = (0 + 12 + 4 + 18 + 22) / 5 = **11.2**

ResponseTime for
P0 = 0,
P1 = 1,
P2 = 0,
P3 = 0,
P4 = 1
Avg Response Time = (0 + 1 + 0 + 0 + 1) / 5 = **0.4**