Homework 2

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Cse460
T/TH @ 2pm

1. the first time running has **n** choices, the second run has **n-1** choices, and this process continues to lower the choices by 1 each time. This results in giving **n!** Choices.

2. a. The average wait time would be 10.5. This comes from (8+ 11.6 +12)/3

   b. The averGe time would be 9.5. This comes from (8 + (8) + (9 - .4 + 4))/3

   c. Time for p3 would be 1

      Time for p2 would be 5.6 ----- (.6 + 1 + 4)

      Time for p1 would be 14 ----- (1 + 1 + 4 + 8)

      Average time: 6.86 ------ (1 + 5.6 + 14)/3

3. a.

RR:

P1	P2	P3	P4	P5	P1	P3	P5	P1	P5	P1	P5	P1	P5	P1	P1	P1	P1	P1	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

FCFS:

P1	P2	P3	P4	P5	
0	10	11	13	14	19

NPP:

P1	P2	P3	P4	P5	
0	10	11	13	14	19

SJF:

P1	P2	P3	P4	P3	P5	P1	
0	1	2	5	6	7	12	21

b.

	P1	P2	P3	P4	P5	Avg.
FCFS	10	11	13	14	19	13.4
SJF	19	1	4	2	9	7
NPP	16	1	18	19	6	12
RR	19	2	7	4	14	9.2

c.

RR: p1 = 9, p2 = 1, p3 = 5, p4 = 3, p5 = 9, avg: 5.4

FCFS: p1 = 0, p2 = 10, p3 = 11, p4 = 13, p5 = 14, avg: 9.6

NPP: p1 = 6, p2 = 0, p3 = 16, p4 = 18, p5 = 1, avg: 8.2

SJF: p1 = 9, p2 = 1, p3 = 5, p4 = 3, p5 = 9, avg: 5.4

d. SJF has the lowest average time