CSC 465: Homework 3

P1: 14, 12, 17 → 43
P2: 2, 2, 2, 3, 2, 2, 2, 3, 2 → 20
P3: 6, 3, 8, 2, 1, 3, 4 → 27
I/O: 6 time units
∅ I: Idle

FCFS

P1	P2	P3	P1	P2	P3	I	P1	P2	P3	P2	I

0 14 16 22 34 36 39,40 57 59 60 70 73

P3	I	P2	I	P3	I	P2	I	P3	I	P2	I	P3	P2	I	P3	P2

73 75 76 78 81 82 84 86 88 91 92 94 97 100 103 106 110 112
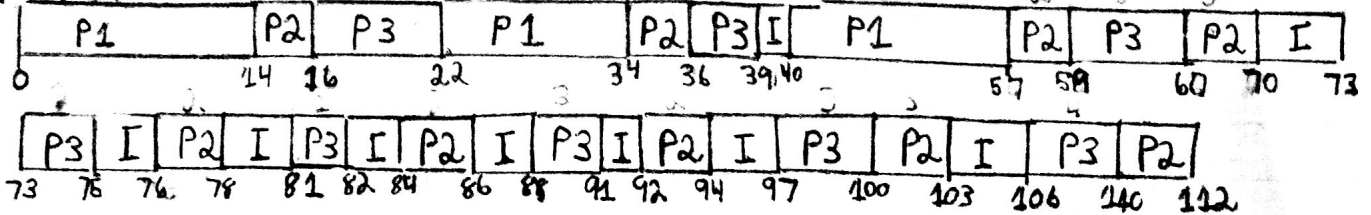
A.) $(90/112) \cdot 100 = 80.36\%$

B.) $(3/112) \cdot 100 = 2.68\%$

C.) 57

D.) $14 + 18 + 21 + 8 + 6 + 6 + 6 + 6 + 6 = 91$

E.) 16

Round Robin ($q_1 = 5$)

P1	P2	P3	P1	P2	P3	P1	I	P2	P3	P1	P2	P3	P1	P2	P3

0 5 7 12 17 19 20 24 25 27 30 35 38 43 48 50 53

P1	I	P2	I	P3	P1	P2	P3	P1	P2	P3	P1	P2	P3	P1

53 55 56 58 59 61 66 68 69 74 77 80 85 87 91 93
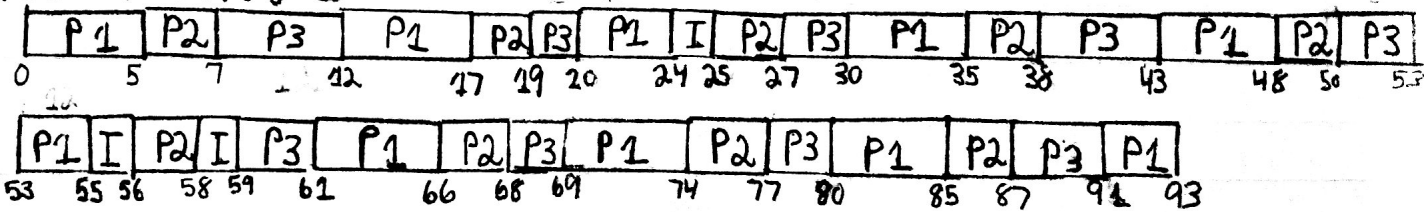
A.) $(90/93) \cdot 100 = 96.77\%$

B.) $(3/93) \cdot 100 = 3.23\%$

C.) 93

D.) $5 + 10 + 6 + 8 + 10 + 6 + 8 + 6 + 10 = 69$

E.) 7

On the back

P1: 14, 12, 17,
P2 2,2,2,3,2,2,3,2
P3 6,3,8,2,1,3,4

Non-Preemptive STF

P2	P3	P2	I	P1	P2	P3	I	P1	P2	P3	P2	I	P1	P3	P2	I

0 2   8 10   24 26 27 30   42 45 53 55   72 74 76 78

P3	I	P2	I	P3	I	P2	I	P3	I	P2	I	P2

78 79 82 84 85   88 90 93 94   98 99 102   108 110
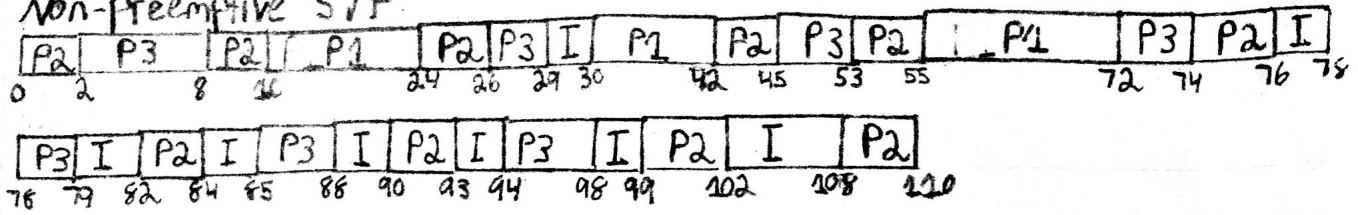
A.) $(90/110) \cdot 100 = 81.81\%$

B.) $(3/110) \cdot 100 = 2.73\%$

C.) 72

D.) $6 + 14 + 16 + 8 + 19 + 6 + 6 + 6 + 6 = 87$

E.) 2