

1

- $m = 2, \sum p_i = 38, T_1 = 7, T_\infty = 20$

$$C_{min}(2) = \frac{\sum p_i}{m} = \frac{38}{2} = \boxed{19},$$

$$C_{max}(2) = \frac{T_1 - T_\infty}{m} + T_\infty = \frac{7 - 20}{2} + 20 = -\frac{13}{2} + 20 = \boxed{13\frac{1}{2}},$$

$$m = 3, \sum p_i = 38, T_1 = 7, T_\infty = 20$$

$$C_{min}(3) = \frac{\sum p_i}{m} = \boxed{\frac{38}{3}},$$

$$C_{max}(3) = \frac{T_1 - T_\infty}{m} + T_\infty = \frac{7 - 20}{3} + 20 = -\frac{13}{3} + 20 = \boxed{15\frac{2}{3}}$$

Processors	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
$\pi(1)$	A	A	A	C	C	C	C	C	C	C	D	D	D	D	G	G	G	G	G	I		K	K	K
$\pi(2)$	B	B	B	B							E	E	F	H	H	J	J	J	J	J	J			

Processors	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
$\pi(1)$	A	A	A					D	D	D	D	F					I	K	K	K
$\pi(2)$	B	B	B	B				E	E	H	H	J	J	J	J	J	J			
$\pi(3)$	C	C	C	C	C	C	C					G	G	G	G	G				

2

- $m = 4, \sum p_i = 56, T_1 = 5, T_\infty = 10$

$$C_{min}(4) = \frac{\sum p_i}{m} = \frac{56}{4} = \boxed{14},$$

$$C_{max}(4) = \frac{T_1 - T_\infty}{m} + T_\infty = \frac{5 - 10}{4} + 10 = -\frac{5}{4} + 10 = \boxed{8\frac{3}{4}},$$

$$m = 6, \sum p_i = 56, T_1 = 5, T_\infty = 10$$

$$C_{min}(6) = \frac{\sum p_i}{m} = \frac{56}{6} = \boxed{9\frac{1}{3}},$$

$$C_{max}(6) = \frac{T_1 - T_\infty}{m} + T_\infty = \frac{5 - 10}{6} + 10 = -\frac{5}{6} + 10 = \boxed{9\frac{1}{6}}$$

Processors	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
$\pi(1)$	M1	M7	N3	N4	N7	P4	P4	P4	P4	P4	T1	C11	T3	C12	C21
$\pi(2)$	M2	N1	N5	P1	P1	P1	P1	P1	P5	P5	P5	P5	P5	T2	C22
$\pi(3)$	M3	M4	M6	P2	P2	P2	P2	P2	P6	P6	P6	P6	P6		
$\pi(4)$	M5	N2	N6	P3	P3	P3	P3	P3	P7	P7	P7	P7	P7		

Processors	1	2	3	4	5	6	7	8	9	10	11	12	13	14
$\pi(1)$	M1	N2	P2	P2	P2	P2	P2	T1	T3	C12				
$\pi(2)$	M2	N3	N4	N7	P6	P6	P6	P6	P6	C22				
$\pi(3)$	M3	M4	M6	P5	P5	P5	P5	P5	T2					
$\pi(4)$	M5	N5	P3	P3	P3	P3	P3	C11						
$\pi(5)$	M7	N6	P4	P4	P4	P4	P4							
$\pi(6)$	N1	P1	P1	P1	P1	P1	P7	P7	P7	P7	P7	P7	P7	C21

- $$C_{max}(4) = \frac{T_1 - T_\infty}{m} + T_\infty = \frac{40 - 73}{4} + 73 = -\frac{33}{4} + 73 = \boxed{64\frac{3}{4}}$$

[illegible]

4

- $m = 3, \sum p_i = 9, T_1 = 3, T_\infty = 3$

$$C_{min}(3) = \frac{\sum p_i}{m} = \frac{9}{3} = \boxed{3},$$

$$C_{max}(3) = \frac{T_1 - T_\infty}{m} + T_\infty = \frac{3 - 3}{3} + 3 = \frac{0}{3} + 3 = \boxed{3},$$

$$m = 4, \sum p_i = 9, T_1 = 3, T_\infty = 3$$

$$C_{min}(4) = \frac{\sum p_i}{m} = \frac{9}{4} = \boxed{4\frac{1}{2}},$$

$$C_{max}(4) = \frac{T_1 - T_\infty}{m} + T_\infty = \frac{3 - 3}{4} + 3 = \frac{0}{4} + 3 = \boxed{3}$$

Processors	1	2	3
$\pi(1)$	G	G	G
$\pi(2)$	A	C	E
$\pi(3)$	B	D	F

Processors	1	2	3
$\pi(1)$	G	G	G
$\pi(2)$	A	D	
$\pi(3)$	B	E	
$\pi(4)$	C	F	

5

- $m = 3, \sum p_i = 33, T_1 = 6, T_\infty = 6$

$$C_{min}(3) = \frac{\sum p_i}{m} = \frac{33}{3} = \boxed{11},$$

$$C_{max}(3) = \frac{T_1 - T_\infty}{m} + T_\infty = \frac{6 - 6}{3} + 6 = \frac{0}{3} + 6 = \boxed{6},$$

$$m = 4, \sum p_i = 9, T_1 = 6, T_\infty = 6$$

$$C_{min}(4) = \frac{\sum p_i}{m} = \frac{33}{4} = \boxed{8\frac{1}{4}}, 0$$

$$C_{max}(4) = \frac{T_1 - T_\infty}{m} + T_\infty = \frac{6 - 6}{4} + 6 = \frac{0}{4} + 6 = \boxed{6}$$

Processors	1	2	3	4	5	6	7	8	9	10	11	12
$\pi(1)$	D	D	D	D	D	G	G	G	G	G	G	
$\pi(2)$	B	B	B	B	E	E	E	E	E	A	A	A
$\pi(3)$	C	C	C	C	F	F	F	F	F	F		

Processors	1	2	3	4	5	6	7	8	9
$\pi(1)$	G	G	G	G	G	G	A	A	A
$\pi(2)$	F	F	F	F	F	F			
$\pi(3)$	E	E	E	E	E	C	C	C	C
$\pi(4)$	D	D	D	D	D	B	B	B	B