

TÖL401G Assignment 10

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TOTAL POINTS

10 / 10

QUESTION 1

1 10 10 / 10

✓ - **0 pts** Correct

- **10 pts** Did not submit an answer
- **9 pts** Blank answer
- **1 pts** Missing avrage res. time
- **1 pts** Running process in front of ready que
- **0.25 pts** Avarage residence time wrong
- **0.25 pts** Wrong entry; running, ready, blocked
- **3 pts** Wrong entry line(s)
- **5 pts** Wrong entry line(s)
- **2 pts** Wrong entry line(s)
- **6 pts** Wrong entry line(s)
- **7 pts** Wrong entry line(s)
- **1.5 pts** Wrong blank line

Heimadæmi 10

- What is the contents of the ready queue and the waiting queue² and what is the currently running process at each point in time when a change occurs? Present the results in a table like this:

Time	Timespan	Running	Ready	Waiting
1	0_1	P1		
2	1_2			P1
3	2_3	P2		P1
4	3_4	P2	p1	
5	4_5	P2	P1, P3	
6	5_6	P2	P1, P3	
7	6_7	P1	P3, P2	
8	7_8	P1	P3, P2	
9	8_9	P3	P2	P1
10	9_10	P2		P1, P3
11	10_11			P1, P3, P2
12	11_12	P1		P3, P2
13	12_13	P1	P3	P2
14	13_14	P1	P3	P2
15	14_15	P1	P3, P2	
16	15_16	P3	P2, P1	
17	16_17	P3	P2, P1	
18	17_18	P2	P1	
19	18_19	P1		
20	19_20			

Running	Grænt
Ready	Gulur
Waiting	Rauður

cpu Table																				
	0-1	1_2	2_3	3_4	4_5	5_6	6_7	7_8	8_9	9_10	10_11	11_12	12_13	13_14	14_15	15_16	16_17	17_18	18_19	19_20
P1																				
P2																				
P3																				

I/O table																				
	0-1	1_2	2_3	3_4	4_5	5_6	6_7	7_8	8_9	9_10	10_11	11_12	12_13	13_14	14_15	15_16	16_17	17_18	18_19	19_20
P1																				
P2																				
P3																				

- What is the average residence time?

$$\frac{19 + 16 + 3}{3} = 16$$

16 Time units.

110 10 / 10

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