First come first serve

Job	Times 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
A	✓	✓	✓	✓	✓																	
B						✓	✓	✓	✓													
C												✓	✓	✓	✓							
D															✓	✓	✓					
E																		✓	✓	✓	✓	✓✓

The program will run the 1ˢᵗ one it see. until it done for the next one to start.

$$\frac{5 + 9 + 13 + 16 + 22}{5} = 13$$

Short job first

Job	Times 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
A	✓												✓	✓	✓	✓						
B		✓	✓	✓	✓																	
C											✓	✓	✓	✓								
D							✓	✓	✓													
E																		✓	✓	✓	✓	✓✓

A runs first then we know B at 2 and B has shorter job so B runs A stop. After B is finished, we know D and C and D has smaller job so D run. Then C run after D is finished. After C finished A run beca A has lower job than E. After A E run.

$$\frac{5 + 8 + 12 + 16 + 22}{5} = 12.6$$

2) $\frac{Prior + Obs}{2}$

8   12   9   11
↑   ↑   ↑   ↑
P_1 P_2 P_3 P_4

$P_1 = 8$

$P_2 = \frac{8+12}{2} = 10$

$P_3 = \frac{10+9}{2} = \frac{19}{2}$

$P_4 = \frac{\frac{19}{2}+11}{2} = \frac{41}{4}$