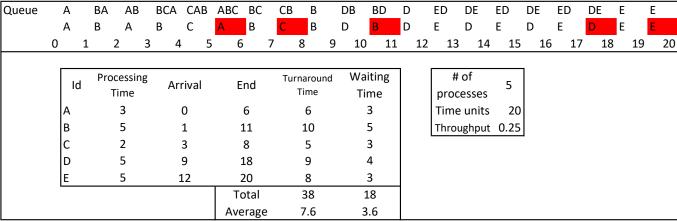
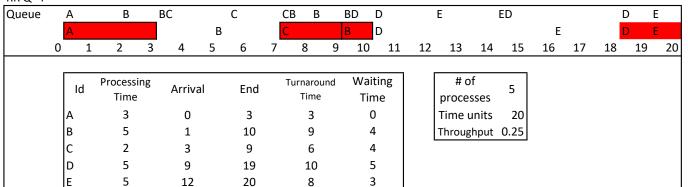
Exercise 1

Process Name	Arrival Time	Processing Time
A	0	3
В	1	5
C	3	2
D	9	5
E	12	5



RR Q=4



16

3.2

36

7.2

Total

Average

FCFS

Queue	Α	В			ВС						D			Е								
	Α			-	В				C)				Е						
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
											\\/ai+	ina		# o	·t							
	Id	Processing Time		-	Arriv	al	End		Turnaround Time		Waiting Time			proce.		5						
	Α		3 0			3	3			0			Time ເ	units	20							
	В		5 1		1		8		7		2			Throug	hput	0.25						
	c		2		3		10		7		5											
	D		5		9		15	5 6			1											
	E		5		12		20		8		3											
							Total		31		11											
							Averag	е	6.2		2.2	2										

Queue	Α	В		СВ	E	3			[) [)		E			Е						
	Α	1 2 3		С	E	3				1)					Е						
	0	1 :	2 3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
	Id	Time		Arriva	rival Enc			Turnaround Time				Waiting Time			# proce		5					
	Α		3	0		3		3		0			Time	units	20							
	В		5	1		10		9		4			Throu	ghput	0.25							
	c		2	3		5		2		0												
	D			9		15		6		1												
	E 5		12		20		8		3													
					Tota			28		8												
						Average		5.6		1.6	5											
SJtCF													_			_				1		
Queue	A	В		СВ)		E			E						
	Α	4 '		C		3					11	42	12	1.1	45	E 4.6	47	40	10	20		
	0	1 :	2 3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
	Id		cessing	Arriva	nl	End		Turnaround Time		Waiting Time			# proce		5							
	Α		3	0		3		3		0			Time	units	20							
	В		5	1		10		9		4			Throu	ghput	0.25							
	С		2	3		5		2		0												
	D	D 5		9		15		6		1												
	E	E		12		20		8		3												
					- 1	Total		28		8												
						Averag		5.6		1.6												

Process Name	Arrival Time	Processing Time
A	0	1
В	1	9
С	2	1
D	3	9

RR Q=1							
Queue	Α	В СВ	BD				
	Α	в С	B D	B D	B D	B D	B D B D B D D
	0 1	2 3	4 5	6	7 8 9	10 11	12 13 14 15 16 17 18 19 2
	Id	Processing Time	Arrival	End	Turnaround Time	Waiting Time	# of 4 processes
	A	1	0	1	1	0	Time units 20
	В	9	1	18	17	8	Throughput 0.2
	c	1	2	3	1	0	
	D	9	3	20	17	8	
				Total	36	16	
L				Average	9	4	
RR Q=4 Queue	A	B CB	CDB	CDB DB		BD	DB BD D
Queue	A	В	CDB	CDB DB	D	טט	B D B D
	0 1		4 5	6	7 8 9	10 11	12 13 14 15 16 17 18 19 2
	Id	Processing	Arrival	End	Turnaround	Waiting	# of 4
	"	Time			Time	Time	processes
	Α	1	0	1	1	0	Time units 20
	В	9	1	19	18	9	Throughput 0.2
	C D	1 9	2 3	6 20	4 17	3 8	
	Ь		3	Total	40	20	
				Average	10	5	
FCFS							
Queue	Α	В ВС	BCD			CD	D
	Α	В		_		С	D
	0 1	2 3	4 5	6	7 8 9	10 11	12 13 14 15 16 17 18 19 2
		Processing			Turnaround	Waiting	# of
	Id	Time	Arrival	End	Time	Time	processes 4
	А	1	0	1	1	0	Time units 20
	В	9	1	10	9	0	Throughput 0.2
	С	1	2	11	9	8	
	D	9	3	20	17	8	
				Total	36	16	

Average

9

4

C	

Queue	Α		B B	IC	BCD					(CD	D								
	Α		В								С	D								
	0	1	2	3	4	5 6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	_																			
		Id	Process	sing	Arrival	End		Turnaro		Wait	ing		# c	f	4					
			Time	е	7 11 11 41	2110	Time		Time			processes		.						
	A		1		0	1		1		0			Time ι	units	20					
	В		9		1	10		9	9	0			Throug	hput	0.2					
	c		1		2	11		9		8										
	D)	9		3	20		17		8										
						Total		36		16	5									
						Averag	e	9		4										

SJtCF

Queue	Α	В	CE	3 I	BD								D								
	Α	В	С	I	В		D														
	0 :	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	Id	Id Processing Ar					End		Turnarou Time		Waiting Time			# c proce		4					
	Α		1		0		1		1		0			Time i	units	20					
	В		9		1		11		10		1			Throug	hput	0.2					
	С		1		2		3		1		0										
	D		9		3		20		17		8										
							Total		29		9										
							Average	е	7.25		2.2	5									