

ANALYSIS OF OUR ALGORITHMS WITH DATA SETS

DATA-1

PROCESS	ARRIVAL TIME	BURST TIME
P1	0	8
P2	0	9
P3	0	10
P4	0	6

TIME QUANTUM=3

NRR OUTPUT

Enter Total Number of Processes: 4

[Enter Details of Process[1]

Arrival Time: 0

Burst Time: 8

Enter Details of Process[2]

Arrival Time: 0

Burst Time: 9

Enter Details of Process[3]

Arrival Time: 0

Burst Time: 10

Enter Details of Process[4]

Arrival Time: 0

Burst Time: 6

Enter Time Quantum: 3

Process ID	Burst Time	Turnaround Time	Waiting Time
Process[4]	6	24	18
Process[1]	8	26	18
Process[2]	9	29	20
Process[3]	10	33	23

Average Waiting Time: 19.750000

Avg Turnaround Time: 28.000000

RR-1 OUTPUT

Enter Total Number of Processes: 4

Enter Details of Process[1]

[Arrival Time: 0

Burst Time: 8

[

Enter Details of Process[2]

Arrival Time: 0

Burst Time: 9

Enter Details of Process[3]

Arrival Time: 0

Burst Time: 10

Enter Details of Process[4]

Arrival Time: 0

Burst Time: 6

Enter Time Quantum: 3

Process ID	Burst Time	Turnaround Time	Waiting Time
Process[2]	9	15	6
Process[3]	10	25	15
Process[4]	6	31	25
Process[1]	8	33	25

Average Waiting Time: 17.750000

Avg Turnaround Time: 26.000000

RR-2 OUTPUT

[Enter Total Number of Processes: 4

Enter Details of Process[1]

Arrival Time: 0

Burst Time: 8

Enter Details of Process[2]

Arrival Time: 0

Burst Time: 9

Enter Details of Process[3]

Arrival Time: 0

Burst Time: 10

Enter Details of Process[4]

Arrival Time: 0

Burst Time: 6

Enter Time Quantum: 3

Process ID	Burst Time	Turnaround Time	Waiting Time
Process[1]	8	17	9
Process[2]	9	23	14
Process[4]	6	32	26
Process[3]	10	33	23

Average Waiting Time: 18.000000

Avg Turnaround Time: 26.250000

DATA-2

PROCESS	ARRIVAL TIME	BURST TIME
P1	0	10
P2	1	5
P3	2	7
P4	3	9

TIME QUANTUM =2

NRR OUTPUT

Enter Total Number of Processes: 4

Enter Details of Process[1]

Arrival Time: 0

Burst Time: 10

[Enter Details of Process[2]

Arrival Time: 1

Burst Time: 5

Enter Details of Process[3]

Arrival Time: 2

Burst Time: 7

Enter Details of Process[4]

Arrival Time: 3

Burst Time: 9

Enter Time Quantum: 2

Process ID	Burst Time	Turnaround Time	Waiting Time
Process[2]	5	18	13
Process[3]	7	24	17
Process[1]	10	30	20
Process[4]	9	28	19

Average Waiting Time: 17.250000

Avg Turnaround Time: 25.000000

RR-1 OUTPUT

Enter Total Number of Processes: 4

Enter Details of Process[1]

Arrival Time: 0

Burst Time: 10

[Enter Details of Process[2]

Arrival Time: 1

Burst Time: 5

Enter Details of Process[3]

Arrival Time: 2

Burst Time: 7

Enter Details of Process[4]

Arrival Time: 3

Burst Time: 9

Enter Time Quantum: 2

Process ID	Burst Time	Turnaround Time	Waiting Time
Process[2]	5	8	3
Process[3]	7	14	7
Process[4]	9	22	13
Process[1]	10	31	21

Average Waiting Time: 11.000000

Avg Turnaround Time: 18.750000

RR-2 OUTPUT

[Enter Total Number of Processes: 4

Enter Details of Process[1]

Arrival Time: 0

Burst Time: 10

Enter Details of Process[2]

Arrival Time: 1

Burst Time: 5

Enter Details of Process[3]

Arrival Time: 2

Burst Time: 7

Enter Details of Process[4]

Arrival Time: 3

Burst Time: 9

Enter Time Quantum: 2

Process ID	Burst Time	Turnaround Time	Waiting Time
Process[2]	5	17	12
Process[3]	7	21	14
Process[4]	9	27	18
Process[1]	10	31	21

Average Waiting Time: 16.250000

Avg Turnaround Time: 24.000000

DATA-3

PROCESS	ARRIVAL TIME	BURST TIME
P1	0	12
P2	0	13
P3	2	10
P4	2	9
P5	3	11
P6	3	7
P7	4	6

TIME QUANTUM=3

NRR OUTPUT

Enter Total Number of Processes: 7

Enter Details of Process[1]

Arrival Time: 0

Burst Time: 12

Enter Details of Process[2]

Arrival Time: 0

Burst Time: 13

Enter Details of Process[3]

Arrival Time: 2

Burst Time: 10

Enter Details of Process[4]

Arrival Time: 2

Burst Time: 9

Enter Details of Process[5]

Arrival Time: 3

Burst Time: 11

Enter Details of Process[6]

Arrival Time: 3

Burst Time: 7

Enter Details of Process[7]

Arrival Time: 4

Burst Time: 6

Enter Time Quantum: 3

Process ID	Burst Time	Turnaround Time	Waiting Time
Process[7]	6	38	32
Process[4]	9	52	43
Process[6]	7	55	48
Process[1]	12	61	49
Process[3]	10	63	53
Process[5]	11	64	53
Process[2]	13	68	55

Average Waiting Time: 47.571430

Avg Turnaround Time: 57.285713

RR-1 OUTPUT

Enter Total Number of Processes: 7

Enter Details of Process[1]

Arrival Time: 0

Burst Time: 12

Enter Details of Process[2]

Arrival Time: 0

Burst Time: 13

Enter Details of Process[3]

Arrival Time: 2

Burst Time: 10

[

Enter Details of Process[4]

[Arrival Time: 2

Burst Time: 9

Enter Details of Process[5]

Arrival Time: 3

Burst Time: 11

Enter Details of Process[6]

Arrival Time: 3

Burst Time: 7

Enter Details of Process[7]

Arrival Time: 4

Burst Time: 6

Enter Time Quantum: 3

Process ID	Burst Time	Turnaround Time	Waiting Time
Process[3]	10	26	16
Process[4]	9	35	26
Process[5]	11	45	34
Process[6]	7	52	45
Process[7]	6	57	51
Process[1]	12	67	55
Process[2]	13	68	55

Average Waiting Time: 40.285713

Avg Turnaround Time: 50.000000

RR-2 OUTPUT

[Enter Total Number of Processes: 7

Enter Details of Process[1]

Arrival Time: 0

Burst Time: 12

Enter Details of Process[2]

Arrival Time: 0

Burst Time: 13

Enter Details of Process[3]

Arrival Time: 2

Burst Time: 10

Enter Details of Process[4]

Arrival Time: 2

Burst Time: 9

Enter Details of Process[5]

Arrival Time: 3

Burst Time: 11

Enter Details of Process[6]

Arrival Time: 3

Burst Time: 7

Enter Details of Process[7]

Arrival Time: 4

Burst Time: 6

Enter Time Quantum: 3

Process ID	Burst Time	Turnaround Time	Waiting Time
Process[3]	10	42	32
Process[4]	9	48	39
Process[5]	11	55	44
Process[6]	7	59	52
Process[7]	6	61	55
Process[1]	12	66	54
Process[2]	13	68	55

Average Waiting Time: 47.285713

Avg Turnaround Time: 57.000000

DATA-4

PROCESS	ARRIVAL TIME	BURST TIME
P1	0	10
P2	0	11
P3	1	7
P4	2	14
P5	3	9
P6	4	8

TIME QUANTUM=5

NRR OUTPUT

Enter Total Number of Processes: 6

Enter Details of Process[1]

Arrival Time: 0

Burst Time: 10

Enter Details of Process[2]

Arrival Time: 0

Burst Time: 11

Enter Details of Process[3]

Arrival Time: 1

Burst Time: 7

Enter Details of Process[4]

Arrival Time: 2

Burst Time: 14

Enter Details of Process[5]

Arrival Time: 3

Burst Time: 9

Enter Details of Process[6]

Arrival Time: 4

Burst Time: 8

Enter Time Quantum: 5

Process ID	Burst Time	Turnaround Time	Waiting Time
Process[1]	10	35	25
Process[3]	7	41	34
Process[5]	9	48	39
Process[6]	8	50	42
Process[2]	11	55	44
Process[4]	14	57	43

Average Waiting Time: 37.833332

Avg Turnaround Time: 47.666668

RR-1 OUTPUT

Enter Total Number of Processes: 6

Enter Details of Process[1]

Arrival Time: 0

Burst Time: 10

Enter Details of Process[2]

Arrival Time: 0

Burst Time: 11

Enter Details of Process[3]

Arrival Time: 1

Burst Time: 7

Enter Details of Process[4]

Arrival Time: 2

[Burst Time: 14

[Enter Details of Process[5]

Arrival Time: 3

Burst Time: 9

Enter Details of Process[6]

Arrival Time: 4

Burst Time: 8

Enter Time Quantum: 5

Process ID	Burst Time	Turnaround Time	Waiting Time
Process[1]	10	10	0
Process[2]	11	21	10
Process[3]	7	27	20
Process[4]	14	40	26
Process[5]	9	48	39
Process[6]	8	55	47

Average Waiting Time: 23.666666

Avg Turnaround Time: 33.500000

RR-2 OUTPUT

[Enter Total Number of Processes: 6

Enter Details of Process[1]

Arrival Time: 0

Burst Time: 10

Enter Details of Process[2]

Arrival Time: 0

Burst Time: 11

Enter Details of Process[3]

Arrival Time: 1

Burst Time: 7

Enter Details of Process[4]

Arrival Time: 2

Burst Time: 14

Enter Details of Process[5]

Arrival Time: 3

Burst Time: 9

Enter Details of Process[6]

Arrival Time: 4

Burst Time: 8

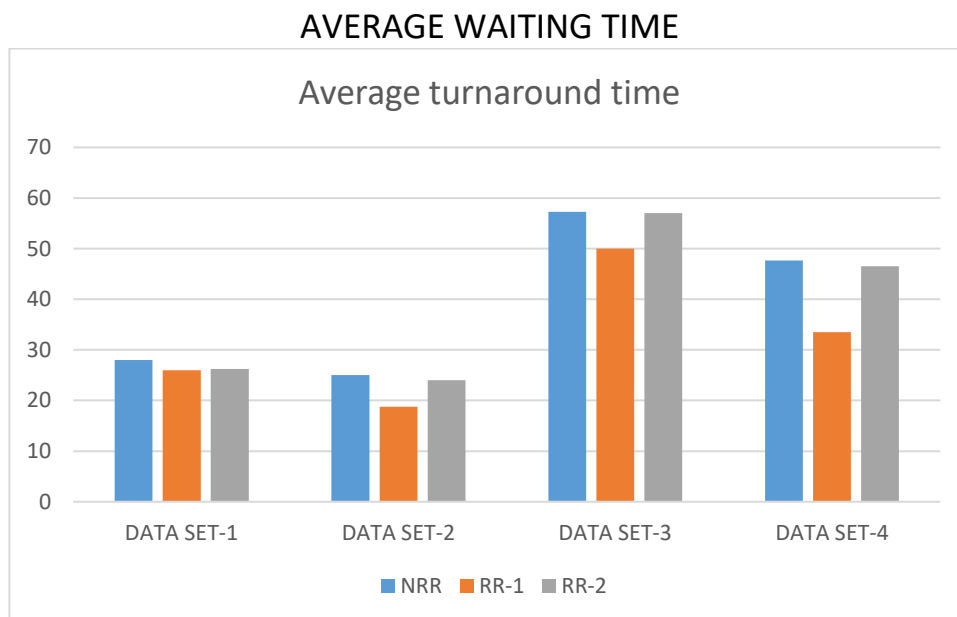
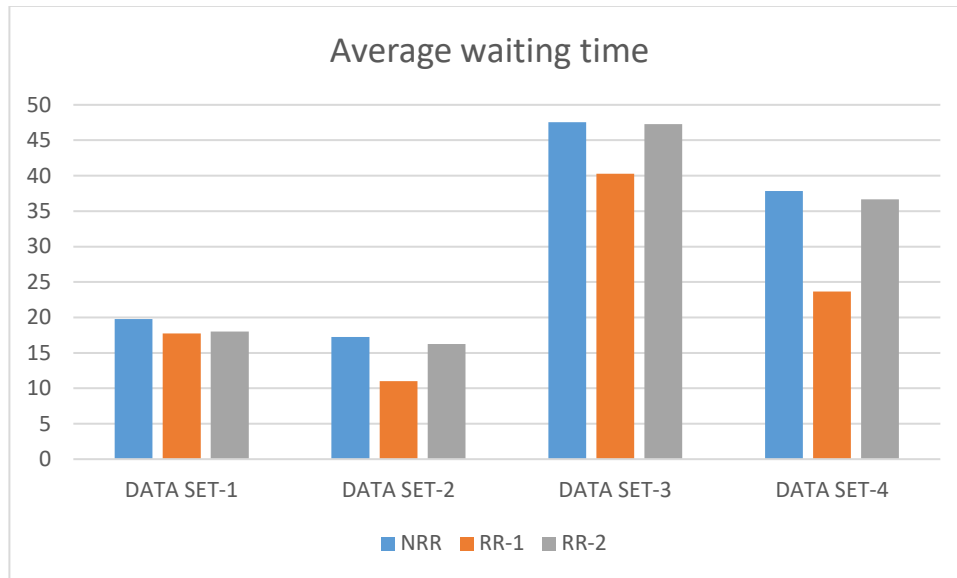
Enter Time Quantum: 5

Process ID	Burst Time	Turnaround Time	Waiting Time
Process[1]	10	35	25
Process[2]	11	41	30
Process[3]	7	42	35
Process[5]	9	51	42
Process[6]	8	53	45
Process[4]	14	57	43

Average Waiting Time: 36.666668

Avg Turnaround Time: 46.500000

CONCLUSION



Average Turnaround time