

HW1: Hand Simulation**Following parameters have been taken**

Arrival Interval = 6 time units

Service rate = 10 time units

Maximum Queue Size = 2,

Retransmission delay = 5 time units

MAX_time_Limit = 70

Assumption: In case CLA, CLS and CLR have the same value, at the next MC, priority is given as per following order

CLR > CLA > CLS

Simulation Table

MC	CLA	CLS	Queue	CLR
0	2	-	0	-
2	8	12	1	-
8	14	12	2	-
12	14	22	1	-
14	20	22	2	-
20	26	22	2	25
22	26	32	1	25
25	26	32	2	-
26	32	32	2	31
31	32	32	2	36
32 (Arrival)	38	32	2	36,37
32 (Exit)	38	42	1	36,37
36	38	42	2	37
37	38	42	2	42
38	44	42	2	42,43
42 (Retransmitted arrival)	44	42	2	43,47
42 (Exit)	44	52	1	43,47
43	44	52	2	47
44	50	52	2	47,49
47	50	52	2	49,52

49	50	52	2	52,54
50	56	52	2	52,54,55
52 (Retransmitted arrival)	56	52	2	54,55,57
52 (Exit)	56	62	1	54,55,57
54	56	62	2	55,57
55	56	62	2	57,60
56	62	62	2	57,60,61
57	62	62	2	60,61,62
60	62	62	2	61,62,65
61	62	62	2	62,65,66
62 (retransmitted arrival)	62	62	2	65,66,67
62 (Regular Arrival)	68	62	2	65,66,67,67
62 (Exit)	68	72	1	65,66,67,67
65	68	72	2	66,67,67
66	68	72	2	67,67,71
67	68	72	2	67,71,72
67	68	72	2	71,72,72
68	74	72	2	71,72,72,73
71	74	72	2	72,72,73,76

Total Requests served in 70 units of time = 6