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PROJECT

Course Title

Operating System (105)

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LEADS DISTRIBUTION SYSTEM

Leads Distribution System follows Round Robin Scheduling Algorithm.

INTRODUCTION

A common feeling among the members of sales teams is that everything is cutthroat, and the winner (the lead in sales team) takes all. Round Robin Scheduling is one way of democratizing a sales team so that everyone has an equal opportunity to make sales.

WHAT IS ROUND ROBIN SCHEDULING?

Round Robin Scheduling is a mean of distributing leads equally to team members, with each lead going to the next sales team member on the list. For example, if you have 10 team members and 200 leads, your distribution would give team member number one the first lead, number two the second lead, and so on. At number 11, you go back to team member number one until all 200 leads have been spread across your team members.

The exception to this of course is that if one of your team members can't take on a lead, you give it to the next team member on the list. You're not preventing them from getting new leads. You're just skipping them (for a cycle or two or three) until they have the time/resources to handle another lead.

HOW ROUND ROBIN SCHEDULING HELPS SALES TEAMS?

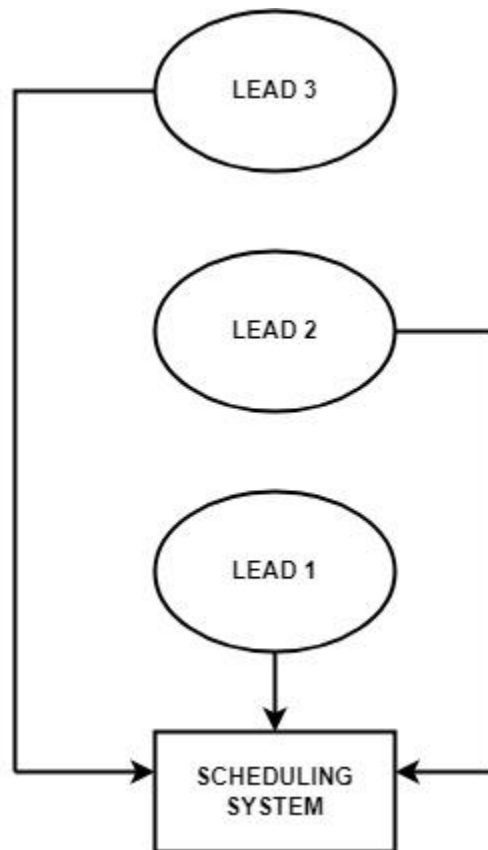
When you use Round Robin Scheduling, you ensure that leads are distributed evenly among your sales team. Not only will this help prevent any one person from becoming overburdened, but it also ensures that everyone on your sales team is occupied with a lead.

WHAT ARE THE BENEFITS OF USING ROUND ROBIN SCHEDULING?

- Efficient service
- Accountability
- Sale Team's Management

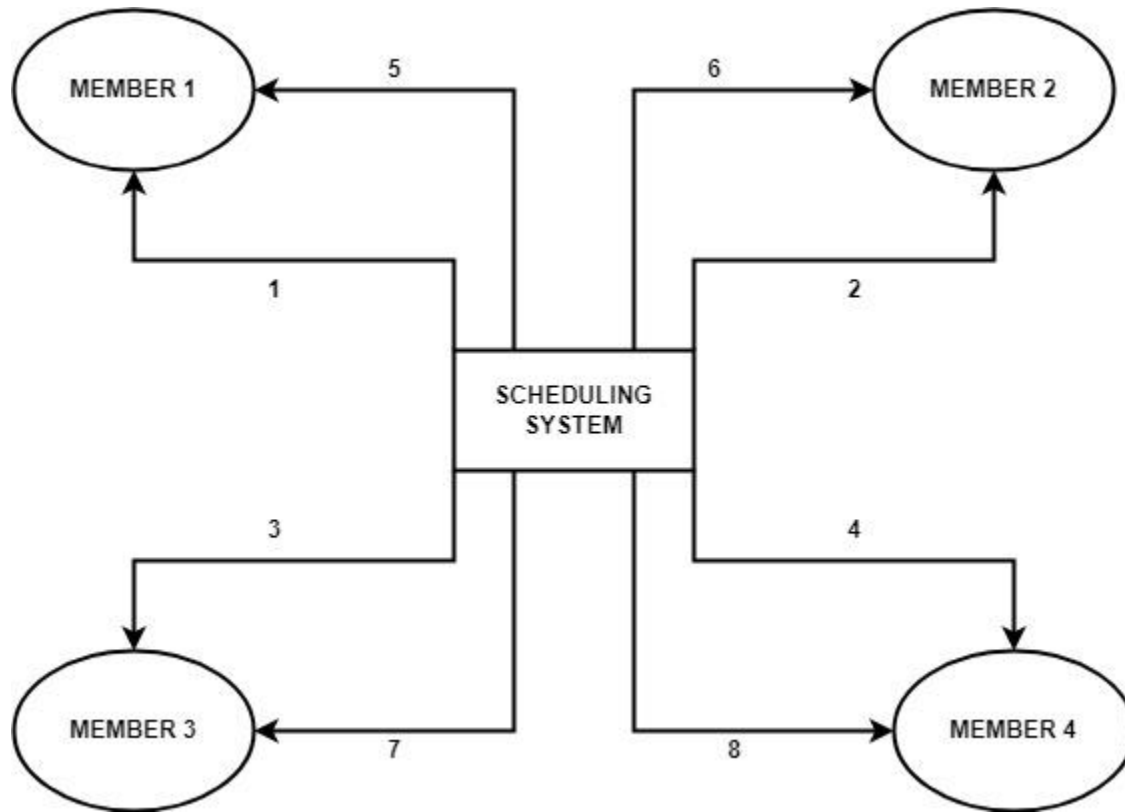
FIRST COME FIRST SERVED (FCFS)

Lead reaching first, will be served first.

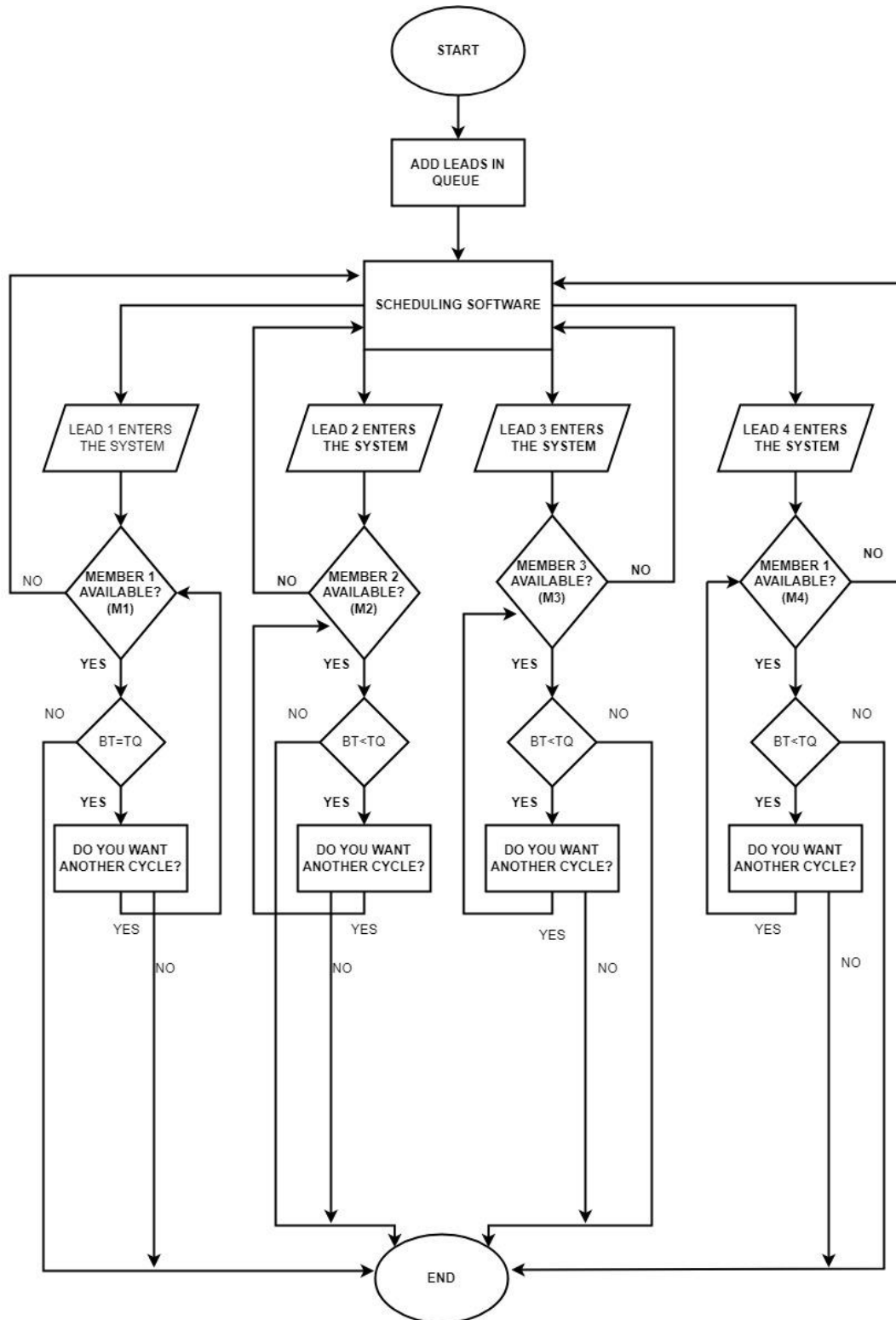


ROUND ROBIN SCHEDULING ALGORITHM (RRSA)

Each lead will be round robin among the available sale team members.



FLOW CHART



ALGORITHM

- Start
- All incoming leads are added in a queue and will be served on the basis of their arrival time(FCFS)
- The scheduling system will keep track of;
 1. L = No. of leads entering the system
(Help in accountability)
 2. A = No. of available sales team members
(Help in assigning leads and managing algorithm)
 3. M_1 to M_n = No. of leads taken by each sales team member
 4. Q = Quantum Time
 5. B = Burst Time
- Leads will be round robin among the available sales team members
- The burst time and the time quantum of each lead will be compared

FIRST COME FIRST SERVED IN LEAD DISTRIBUTION SYSTEM

TABLE

Leads	Arrival Time	Burst Time
L1	0	7
L2	1	8
L3	2	9
L4	3	10

GANTT CHART

L1	L2	L3	L4
0	7	15	24
			34

WAITING TIME

Leads	Waiting Time
L1	0
L2	6
L3	13
L4	21

AVERAGE WAITING TIME

(Total Waiting Time / No. of Waiting Time) = 10

TURN AROUND TIME

Leads	Turn Around Time
L1	7
L2	14
L3	22
L4	31

AVERAGE TURN AROUND TIME

(Total Turn Around Time / No. of Turn Around Time) = 18.5

ROUND ROBIN IN LEAD DISTRIBUTION SYSTEM

TABLE

Leads	Arrival Time	Burst Time
L1	0	7
L2	1	8
L3	2	9
L4	3	10

GANTT CHART

Time Quantum=8

L1	L2	L3	L3	L4	L4	
0	8	16	24	32	40	48

WAITING TIME

Leads	Waiting Time
L1	1
L2	7
L3	21
L4	35

AVERAGE WAITING TIME

(Total Waiting Time / No. of Waiting Time) = 16

TURN AROUND TIME

Leads	Turn Around Time
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L1	8
L2	15
L3	30
L4	45

AVERAGE TURN AROUND TIME

(Total Turn Around Time / No. of Turn Around Time) = 24.5

RESPONSE TIME

Leads	Response Time
L1	8
L2	16
L3	32
L4	48