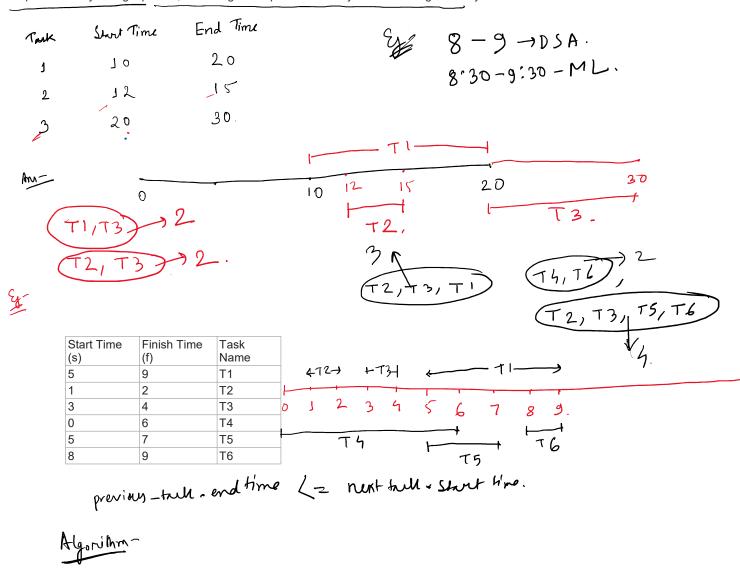
Activity selection problem / maximum disjoint interval

You are given **n** activities with their start and finish times. Select the maximum number of activities that can be performed by a single person, assuming that a person can only work on a single activity at a time.



Algorithm:

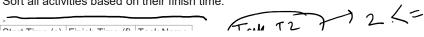
- 1. Sort all activities based on their finish time.
- $2. \ \mbox{Choosing the first activity from the sorted list.}$
- 3. Select the next activity from the sorted list only if its start time is greater than or equal to the finish time of the previously selected activity.
- 4. Repeat Step 3 for all the remaining activities in the sorted list.

Question: Maximum tasks that can be performed without any overlapping

	Start Time (s)	Finish Time (f)	Task Name
ر ر	5	9	T1
	1	2	T2
	31	4	T3
	.0	6	T4
٠.	5_	7	T5
_	8	9	T6

Answer:

1. Sort all activities based on their finish time.



Answer:

1. Sort all activities based on their finish time.

Start Time (s) Finish Time (f) Task Name	(Tall 12) 2 !
3 2 2 1 3 T	
0 6 47	Tuk T3
5 9 F	ELTE
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