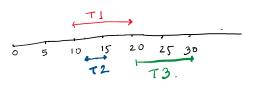
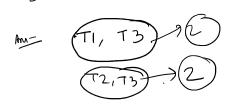
Activity selection problem / maximum disjoint interval

You are given \mathbf{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.

Park	Short Time	End Time
j	10	20
2	12	15
3	20	30.

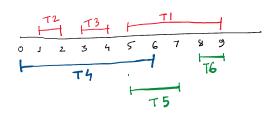


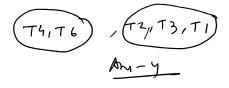


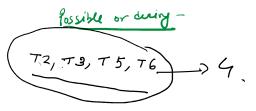
Possible activities that can be performed either



Start Time (s)	Finish Time (f)	Task Name
5	9	T1
1	2	T2
3	4	T3
0	6	T4
5	7	T5
8	9	T6







Algorithm:

- 2. 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
5	9	T1
1	2	T2
3	4	T3
0	6	T4
5	7	T5
8	9	T6

Injut-n=3 surt[]={10,12,20} end []={20,15,30}. Ougut-2

Answer

1. Sort all activities based on their finish time.



Start Time (s)	Finish Time (f)	Task Name
J	2_	T20
3	4	™3 ~
٥	6	⋾5≫
5	7	™ 5 ~
5	9	T1 🔀
8	້ອງ	T6 .

