## Greedy Algorithm Activity Selection Problem

There are n different activity given with their start time and end time.

Select maximum number of activities that can be solved by a single person.

- (1) Sort the activity with their ending home.
- (2) Find compatible activity and add to list.

Sec	AL	A2	A	Aq	As	AG	A>	A8	Aq	
Se	1	2	4	1	5	8	9	11	13	
Fi	3	2	7	8	9	10	. 11	14	16	1

Solo Sort the activity with their and time.

A= {A1, A3, A6, A8} < optimal solution.

Greedy - Ackrity (S, F)

1. n < length (S)

2. A < /17

2.0

3 141

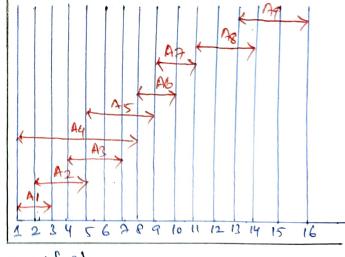
4. for EC 2 to n

5. do 13 527 5

6. Hen A HOLLY

7. 3←?

& return A.



Que S= {A1, A2, A3, A4, A5, A6, A2, A6, A7, A6, A7

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 $Si = \{1, 2, 3, 4, 2, 8, 9, 9, 11, 12\}$  $Fi = \{3, 5, 4, 7, 10, 9, 11, 13, 12, 14\}$ 

Soly: Sood the activity with their ending time.

00 1	M	1.3	Az	Aq	16	A5	Az	Aq	AB	AID
Si	1	3	2	9	8	7	9	11	9	12_
Fi	3	4	5	7	9	10	11	12	13	14

A= } A1, A3, A4, A6, A7, A9, A10}

Notes It is the problem of scheduling several activities that require exclusive use of a common resource, with a goal of selecting a maximum size set of mutually compatible activities.

1-5 Ar Auditorium

3-6 Az 3

7-8 Az

