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Objective :

- To book or cancel appointment using linked list

Input :

- start time, end time, min and max time
- status as booked or free

Out come :

- Display Appointment schedule
- shoe appointment booking status
- Result or sort appointment as per start time on linked list.

Theory :

Write short theory of linked list.
Explain logic / algorithms to book and cancel appointment Explain logic / algorithms for storing appointment linked list

Algorithms :

(Write your own algorithms for your program)

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Flow chart :

(Draw your own ~~algorithms~~ flowchart for your algorithms)

Algorithm to book and cancel appointment

1. Create an interval tree, initially with the first appointment
2. DO Following for all other appointments starts from the record one
3. check if the existing appointment in interval tree if consists then print the current appointment this step can be done q ((log n) time
4. In sort the current appointment in interval tree

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Conclusion :

By this way we can book at correct appointment so using linked list

Flowchart