1. Partial order planning:

partial order planning technique
where actions are partially ordered,
meaning that not all actions need
to be executed in a strict sequence.
The planner defines order of actions
anly where necessary (based on
Constraints), leaving other actions
unordered until they become dependent.
ex: robot that needs to set table.

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ex: robot that needs to set table.

A: place plate on table

B: place fork on table

e: Place knife on table

D: Pow water into glass.

order of placing plate, fork and knife is not dependent on each other.

However, the action of powing water into glass can only happen after glass is placed. So, actions are only partially ordered

Glass placed (E) -> power water (D)

other actions like placing plate, fork and knife are dependent of each other and can occur in any

order.

2. Non-Lineau Planning:

It allows the execution of actions that are not strictly sequential.

It means that multiple steps can be executed concurrently as long as their dependencies are satisfied.

This type planning is useful in scenario where task do not depend on each other and can be done in parallol.

ex: project where different developers.

are working on different modules.

A: Pevelop module A.

B: Develop module B: "

c: Integrate module A and B

D: Test the integrate system

In non-linear planning, Task A and Task B
can Task B can happen concurrently
since they are independent of each
other. However, Task C can only happen
once both Task A and Task B are
complete similarly, Task D testing
can only be executed after Task c
is finished.

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3. Hierarchical Planning

Heirarchical planning breaks down complex tasks into smaller, more manageable Sub-task. It structures a plan into a high-level task is decomposed ento detailed steps at lower levels.

ex; robot is tasked with preparing breakfast, which Phyolyes multiple subtask.

- * prepare breakfast
- Subtask 1: Make coffee.
 - 1.1 Boil water
 - 1.2 Add coffee to the filter.
 - 1.3 pour boilling water over coffee.

subtask 2: Toast bread.

- 2.1 place bread in toaster
- 2.2 press start button
- 2,3 Take out the toast.

Subtask 3 & cook eggs.

3.1 Crack eggs ento plan

3.2 fry the eggs.