

## Analysis Output:

The problematic goal is 'Carry meals from the kitchen to all patient rooms.'. The system cannot achieve the sub-goal "Deliver 'meal' to 'r1'.".

The statements that cause the problem are:

'Carry meals from the kitchen to all patient rooms.' because of item(s): "Deliver 'meal' to 'r1'.".

"Don't go into any public rooms." because of item(s): "Do not go to 'hall\_c'.".

No further analysis available.

## SLURP Traceback:

- ▶ Start in the closet.
- ▼ Carry meals from the kitchen to all patient rooms.
  - ▼ Action: 'carry', Argument: 'meal', Source: 'kitchen', Destination: 'rooms'
    - ▶ Nothing is carried or delivered at the start.
    - ▶ Only pick up if you can carry more.
    - ▶ Only drop if you are carrying something.
    - ▶ Stay where you are when picking up and dropping.
    - ▶ Pick up 'meal' in 'kitchen'.
    - ▼ Deliver 'meal' to 'r1'.

```
([]((next(s.mem_deliver_r1) <-> (s.mem_deliver_r1 | (next(s.r1) & next(s.drop))))))
```

```
([]<>(s.mem_deliver_r1))
```

- ▶ Deliver 'meal' to 'r2'.
    - ▶ Deliver 'meal' to 'r3'.
    - ▶ Deliver 'meal' to 'r4'.
    - ▶ Deliver 'meal' to 'r5'.
    - ▶ Deliver 'meal' to 'r6'.
  - ▼ Don't go into any public rooms.
    - ▼ Action: do not 'go', Location: 'rooms'
      - ▼ Do not go to 'hall\_c'.

```
([](!s.hall_c))
```

- ▶ The robot does not begin in 'hall\_c'.
- ▶ Do not go to 'lounge'.
- ▶ The robot does not begin in 'lounge'.