

CSL304: LAB-7 PLANNING

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PROBLEM-1: Gripper Task Planner

Found Plan (output)

(pick-up ball1 rooma right)

(move rooma roomb)

(drop ball1 roomb right)

(move roomb rooma)

(pick-up ball2 rooma right)

(move rooma roomb)

(drop ball2 roomb right)

(move roomb rooma)

(pick-up ball4 rooma left)

(move rooma roomb)

(drop ball4 roomb left)

(move roomb rooma)

(pick-up ball3 rooma right)

(move rooma roomb)

(drop ball3 roomb right)

```
(:action pick-up
:parameters (ball1 rooma right)
:precondition
  (and
    (at-ball ball1 rooma)
    (at-robby rooma)
    (free right)
  )
:effect
  (and
    (carry right ball1)
    (not
      (at-ball ball1 rooma)
    )
    (not
      (free right)
    )
  )
)
```

PROBLEM-2: Hospital Emergency Planner

Found Plan (output)

(move a2 h2 loc2)

(pickup-patient p2 a2 loc2)

(move a2 loc2 h2)

(dropoff-patient p2 a2 h2)

(move a2 h2 loc3)

(pickup-patient p3 a2 loc3)

(move a2 loc3 loc2)

(move a2 loc2 h1)

(dropoff-patient p3 a2 h1)

(move a1 h1 loc1)

(pickup-patient p1 a1 loc1)

(move a1 loc1 h1)

(dropoff-patient p1 a1 h1)

```
(:action move
:parameters (a2 h2 loc2)
:precondition
  (and
    (at a2 h2)
    (connected h2 loc2)
    (not
      (blocked h2 loc2)
    )
  )
:effect
  (and
    (at a2 loc2)
    (not
      (at a2 h2)
    )
  )
)
```