

PDDL Domain Visitall

```
(define (domain grid-visit-all)
  (:requirements :typing)
  (:types place - object)
  (:predicates (connected ?x ?y - place)
               (at-robot ?x - place)
               (visited ?x - place))

  (:action move
    :parameters (?curpos ?nextpos - place)
    :precondition (and (at-robot ?curpos)
                      (connected ?curpos ?nextpos))
    :effect (and (at-robot ?nextpos) (not (at-robot ?curpos))
                (visited ?nextpos))))
```

AutoPlanBench

Natural-language encoding Visitall

I can carry out the following actions:

move from a place A to a place B

I have the following restrictions on my actions:

I can only move from a place A to a place B if it is the case that the robot is at A and A is connected to B

The actions have the following effects on the state:

Once I move from a place A to a place B, it is the case that B has been visited and the robot is at B

Once I move from a place A to a place B, it is not the case anymore that the robot is at A

Everything that is a place is also a object