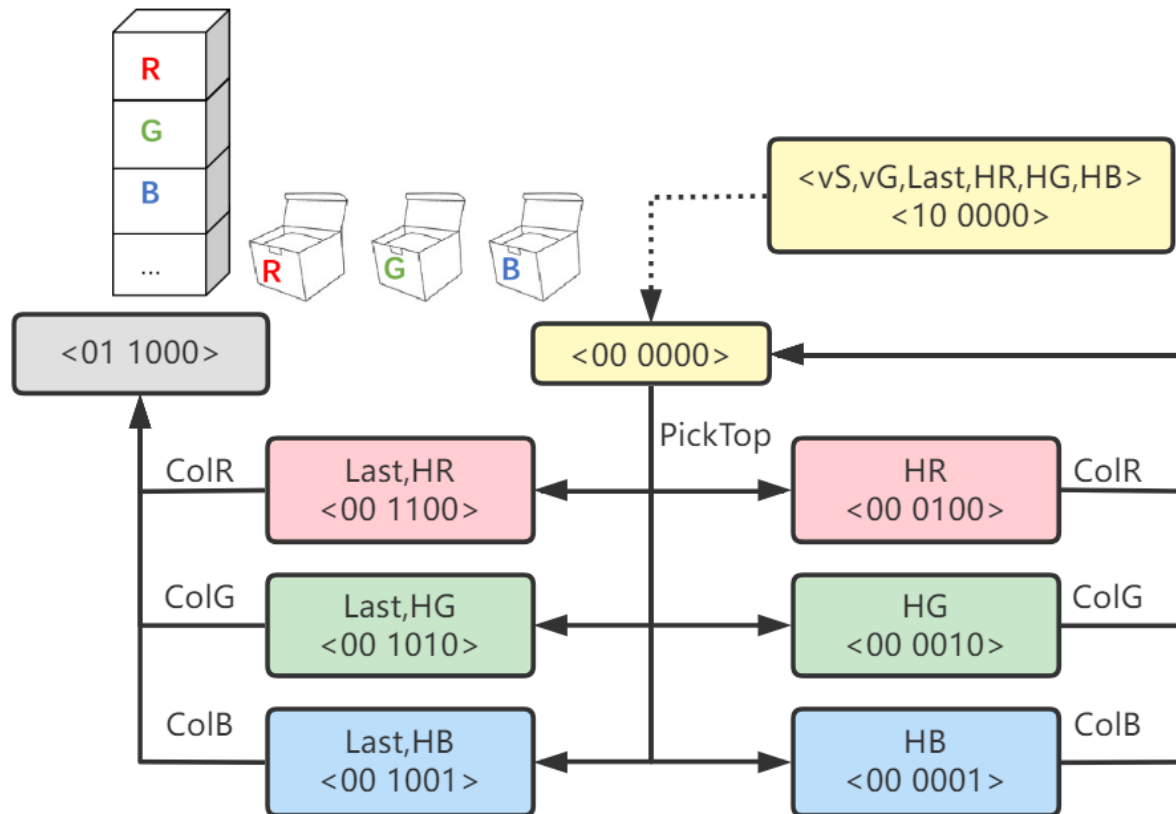
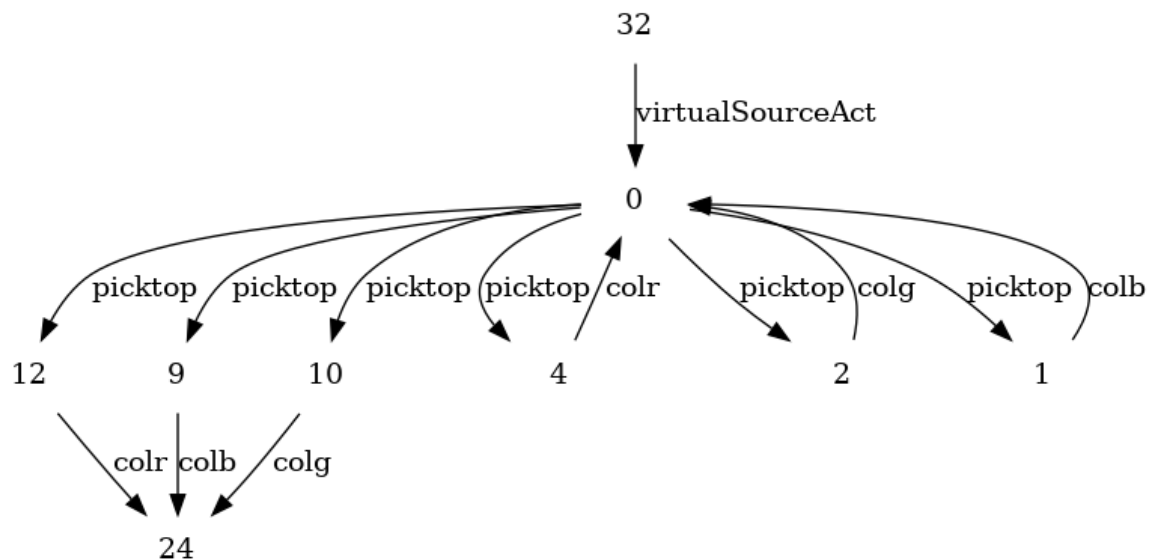


FOND problem



Full set of examples of domain RGBBlocks: R, G, B, RGBX, where the base block X represents any of the three colors of RGB.

Policy by PRP



```

1  (:predicates
2    (on_table ?x - BlockType)
3    (clear ?x - BlockType)
4    (on ?x1 ?x2 - BlockType)
5    (holding ?x - BlockType)
6    (isRed ?x - BlockType)
7    (isGreen ?x - BlockType)
8    (isBlue ?x - BlockType)
9    (inRedBox ?x - BlockType)
10   (inGreenBox ?x - BlockType)
11   (inBlueBox ?x - BlockType)
12   (arm_empty)
13   ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
14   (vStart)
15   (VGoal)
16   (BlocksCleared)
17   (HRed)
18   (HGreen)
19   (HBlue)
20 )
21 (:derived
22   (BlocksCleared)
23   (clear Bottom))
24 (:derived
25   (HRed)
26   (exists (?x - BlockType) (and (isRed ?x) (holding ?x) )))
27 (:derived
28   (HGreen)
29   (exists (?x - BlockType) (and (isGreen ?x) (holding ?x) )))
30 (:derived
31   (HBlue)
32   (exists (?x - BlockType) (and (isBlue ?x) (holding ?x) )))
33 ;; ##### ACTIONS #####
34 (:action pickTop
35   :parameters (?x ?y - BlockType)
36   :precondition (and (on ?x ?y) (clear ?x) (arm_empty))
37   :effect (and (holding ?x) (clear ?y)
38               (not (on ?x ?y)) (not (clear ?x)) (not (arm_empty))))
39

```

```
1 (:action colR
2   :parameters (?x - BlockType)
3   :precondition (and
4     (holding ?x) (isRed ?x) )
5   :effect (and (inRedBox ?x) (arm_empty) (not (holding ?x))) )
6 )
7 (:action colG
8   :parameters (?x - BlockType)
9   :precondition (and
10    (holding ?x) (isGreen ?x) )
11   :effect (and (inGreenBox ?x) (arm_empty) (not (holding ?x))) )
12 )
13 (:action colB
14   :parameters (?x - BlockType)
15   :precondition (and
16    (holding ?x) (isBlue ?x) )
17   :effect (and (inBlueBox ?x) (arm_empty) (not (holding ?x))) )
18 )
19 )
```