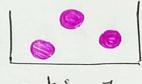
Assignment 4

Task 18.
Please See attached

Ext files.





Ontainer I

Onstants: B1, B2, B3 B4, B5, B6

Predicates 8

BlueBall(x) & X is Blue
RedBall(x) & X is Red

Container I(x) & X in Container I

Container 2008 X in Container 2

Pritate State 8

Container I (B1) Λ (ontainer I (B2) Λ Container I (B3) Λ Red Ball (B1) Λ Red Ball (B2) Λ Red Ball (B3) Λ Container 2 (B4) Λ Container 2 (B5) Λ Container 2 (B6) Λ Blue Ball (B4) Λ Blue Ball (B5) Λ Blue Ball (B6)

AETRONS8

malemarable (X,Y)

pre-Condition: Gostainer I (x) A Container I (y) A BlueBall (+)
A Red Ball (4)

Effect 8 7 Container I(x) 17 Container I(y) 1 Container 2(x) 1 Container 2(y)

move-to (x,y)

pre-condition 8 Container 2 (x) 1 Container 2 (y) 1 Red Ball (x) 1

Red Ball (y)

Effects 7 Container 2(x) 1 7 Container 2(y) 1 Container 1(b)
1 Container 1(y)

Move-From-To(X,y)

Pre-Condetion & Container 2(x) \(\) Container 2(y) \(\) Blue Ball(x) \(\)

Blue Ball(y)

Effects 7 Container 2(x) \(\) 7 Container 2(y) \(\) Container I(x)

\(\) Container I(y)

Goal
Ontainer I (B4) 1 Gotainer I (B5) 1 Gotainer I (B6)
Gotainer 2 (B1) 1 Gotainer 2 (B2) 1 Gotainer 2 (B3)

Complete plan 8

Complete plan 8

move-To(B1,B2)
movemarable(B1,B6)
movemarable(B2,B4)
move to (B1,B3)
move marable(B1,B5)
move-To(B1,B2)

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Ta8 K3 -

Execution Monitoring/online Replaning 80

Here we weed to handle downin when effect on action NoT Deterministic.

But, when we start solve the problem we considered that problem as Deterministic, therefore, No drange Required.

Condétional Planning : Since our problem has more than one out come, So we have more than one Action therefore, we will do changing.

Move marable (+,y)

Pre Gooditions Container 1(x) A Container 1(y) A Blue Ball (x) A Red Ball (y)

EFFECT 8 (7 Container 1(x) A 7 Container 1(y) A Container 2(x) A

Container 2(y)) V (Container 2(x) A 7 Container I(x))

V (Container 2(y) A 7 Container 1(y))

Move-To (xy)

Pre-Gord ition & Container 2(x) A Container 2(y) A RedBall (b) A RedBall (y)

EFFECTS (7 Gortianer 2(x) A 7 Gortainer 2(y) A Container 1(x) A Gortainer 1(y))

(Container 1(x) A 7 Gortainer 2(x)) V (Container 1(y) A 7 Container 2(y))

Move-From-to (x,y) Pre-Condition & Container 2 (x) 1 Container 2 (y) 1 Blue Ball (x) 1 Blue Ball (y) EFFECTS (7 Container 2 (x) 17 Container 2 (y) 1 Container 1 (x) 1 Container I (4)) V (Container I (b) Montainer 2 (x)) V (Container I (y) MContainer 2 (y))

Task 4 -Prodicates = 4 Constants = 5 Arguments = 3 For each possible prodicate we veod to check if predicate return true or falke. So, each predicate take from 1 to 3 argument as Max To calculate Tigh Bound [5x4 5x4] [20 500] & And: cate could be True or false 20 2 Number et unique States. in Jungle.