ant at beginning of year

(n, s, s') ant spent in prev year

ant spent in current year

Initial State: (N,1,0) or (N-1,0) GOAL States: (901)

Step Cost Function: S, which could be s'+1, s'-1, or s'

Successor Functions: (n,5,5'|5'-1=5 v s'+1=5 v s'=5)=7(n-5,5+1,5) (n-5,5-1,5) (n-5,5,5)

b) Not admissible because the amount of money in the account can meneose is n=0, or is n=0, then and in account can keep decreasing. Therefore, not consistent c) h=151-1 is admissible and consistent

d) (12,10) -> (11,21) -> (9,32) -> (6,33) -> (3,23) -> (1,2) -> (6,01)h=0