

6. No Expand no , no previous

Cost Estimate; use
$$h(n)$$
 n_{τ}
 n_{τ}
 n_{τ}
 n_{τ}
 n_{τ}
 n_{τ}
 n_{τ}
 n_{τ}
 n_{τ}

$$q(n_5) = h(n_5) = 1$$

4. truce down +>

n, no n, ns 5. Select n=n, as a non-terminal mode

6. Expand n, as successors

 $q(n_3) = h(n_3) = 4$ $q(n_2) = h(n_2) = 4$ n_2/n_3 not solved

7. S={1,3

10. S={3, m=nx

11. Henre Cost

q(n, j = min) $\begin{cases} q_3(n_1) = c_3 + q_1(n_3) = 1 + 4 > 5 \\ 1q_2(n_1) = c_2 + q_1(n_2) = 1 + 4 = 5 \end{cases}$

pride one - 9(m,)=5

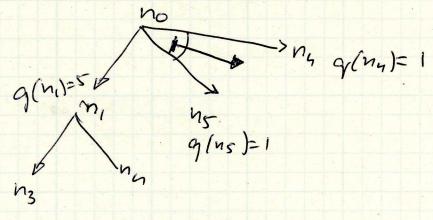
12. m=n, not solved but revised cost is

different (5 instead of 2)

S= 1 no 3

10,5= 2], m= no

11. revise cost for $q(m)=q(n_0)$ $q_1(n_0)=c_1+q(n_1)=1+J=6$ $q_2(n_0)=2+1+1=4$ choose $q(n_0)=4$ trase previous marling.



120 no=m - not solved

cost of m= no changed.

But S=23 jump to 30

40 trace the marked to connector

no a (no)=4 ny (ny)=1 ns a (ns)=1

Solved-

5. Select any loaf choose hs

G. Expand no to no, no morte no in solved

11. revise cost? 9 (nr) = 8

 $q_3(n_5) = c_3 + q(n_9) + q(n_8) =$ = 2+0+0=2

> $(q(n_5)=q_3(n_5)=2$ instead of the old $q(n_5)=1$

> > mark no solved

12. ns=m is solved 5=4no3

10. S= 13 m=no

11. revie cost of no ___

q(no)= C, +(q/ns)+q/ng)= 2+2+1=5

> not all successors are Solved, no solved made.

12. mano - not solved, renied

But no parents

8= } } Back \$ 4.

no 9(no)=5

5. n=n4

6-Expand ny to no and ng no already in 4

ng -> q (ng)= h(ng)=0 already solved.

no 9 (20) =5 9(ns)=2 # > hy q (nu)=1 (Estimated)

7. S= 14g)

10, 9= }3 m=n4

11. remise cost of (nc,)

qu(nu)=1+ q(n8)=1+0=1 now real cost.

nz is solved, ny is

solved

ho ×n 4 9 (n4)= 1 12. Nu is solved S= Ino 3 10. S= 33 m=no 11. sense cost of no (oldertis q(no)=5) q (no) = q (ns)+2+q(ny)=2+2+1=5 no change. make & no solved 12. No is solved but no parelte 2. No is sowed, stop