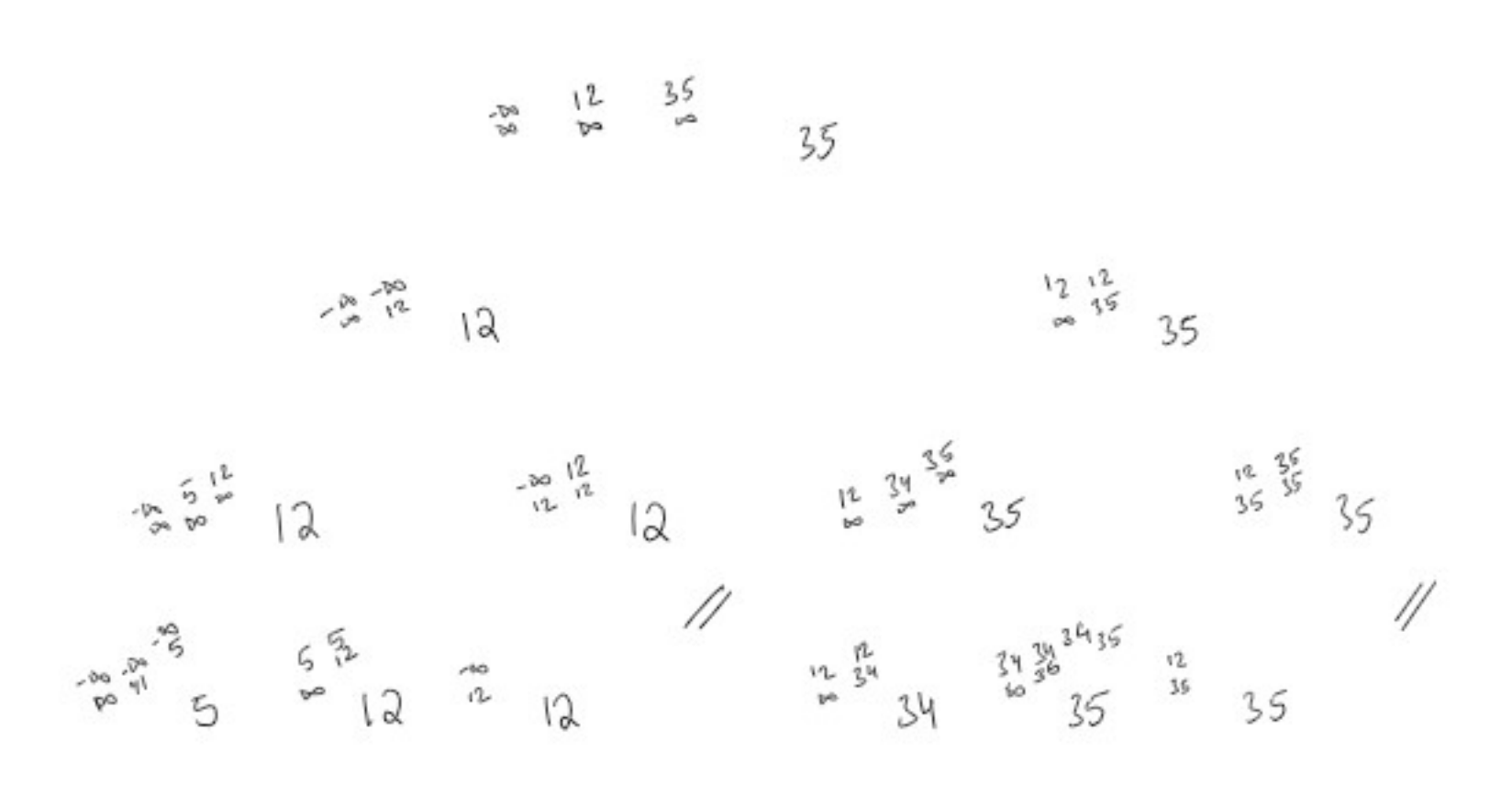
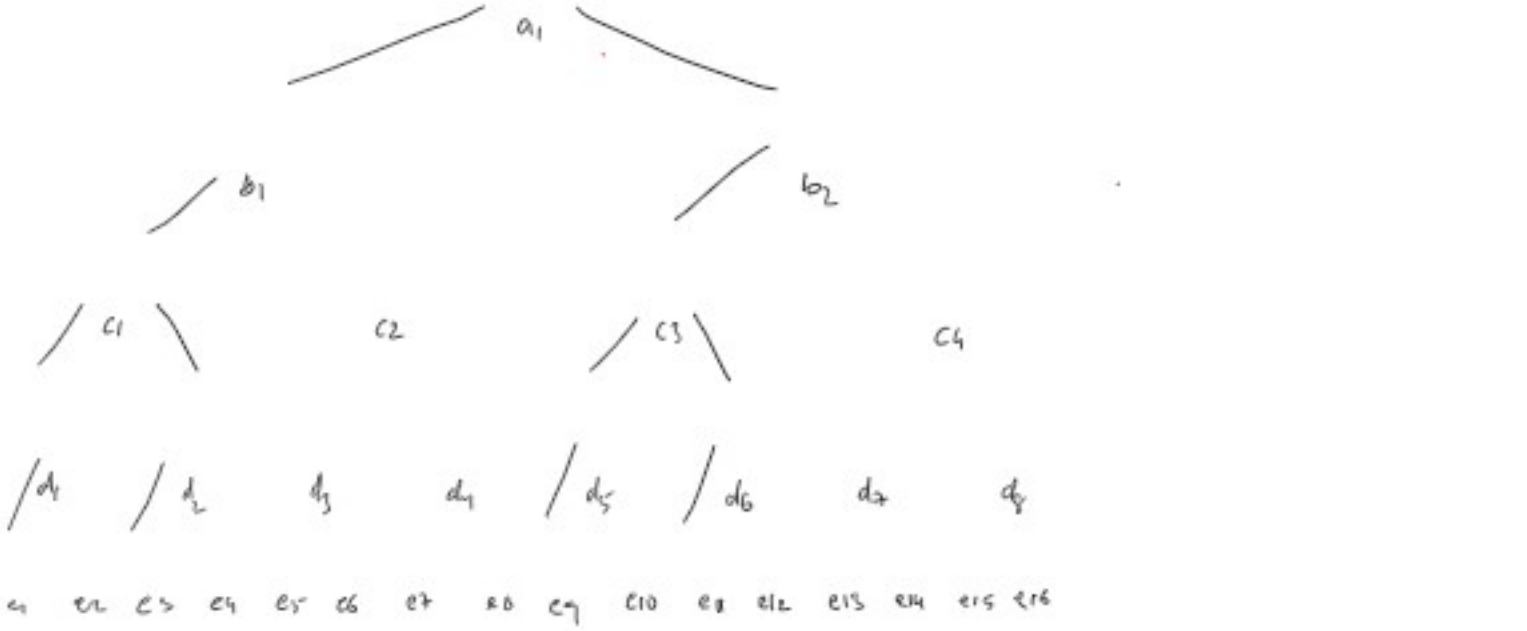
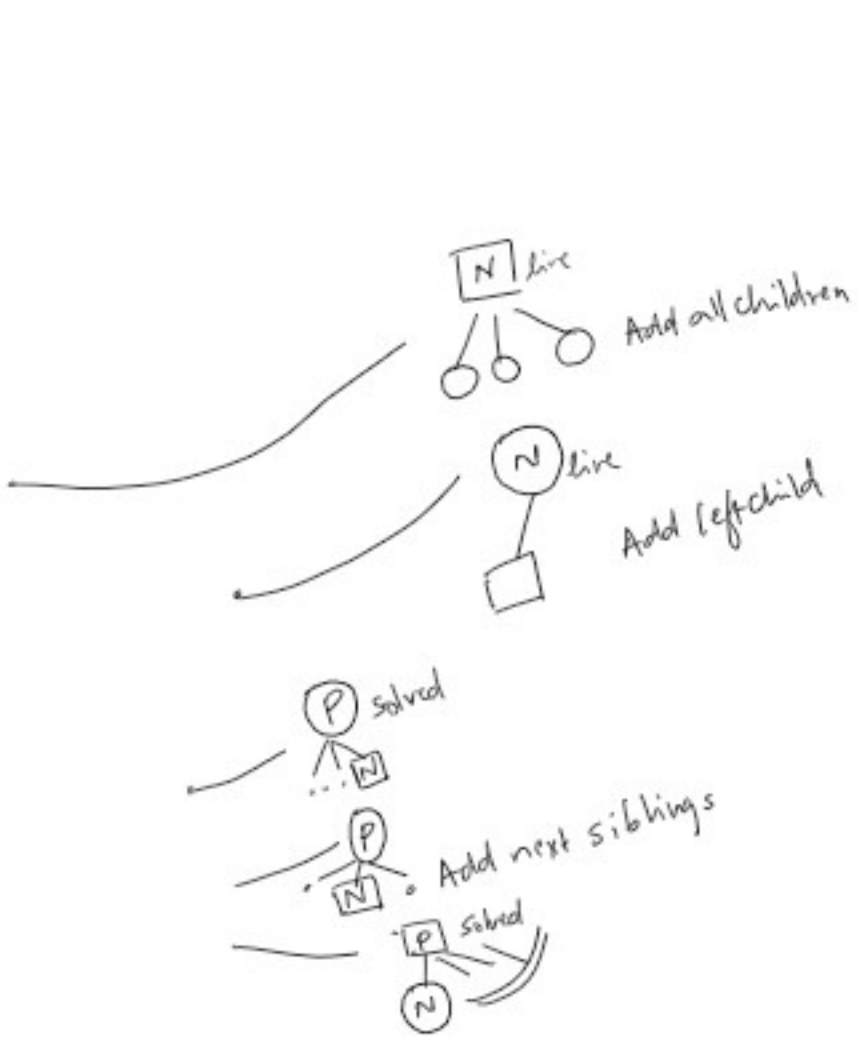

48
cut
cut
β β α α α α α α
best strategy
max best 1
min All
Strategy
max 1 (leftmost)
min All
48
48
30
48
74
30
50
11
48
53
74
23
30
50
45

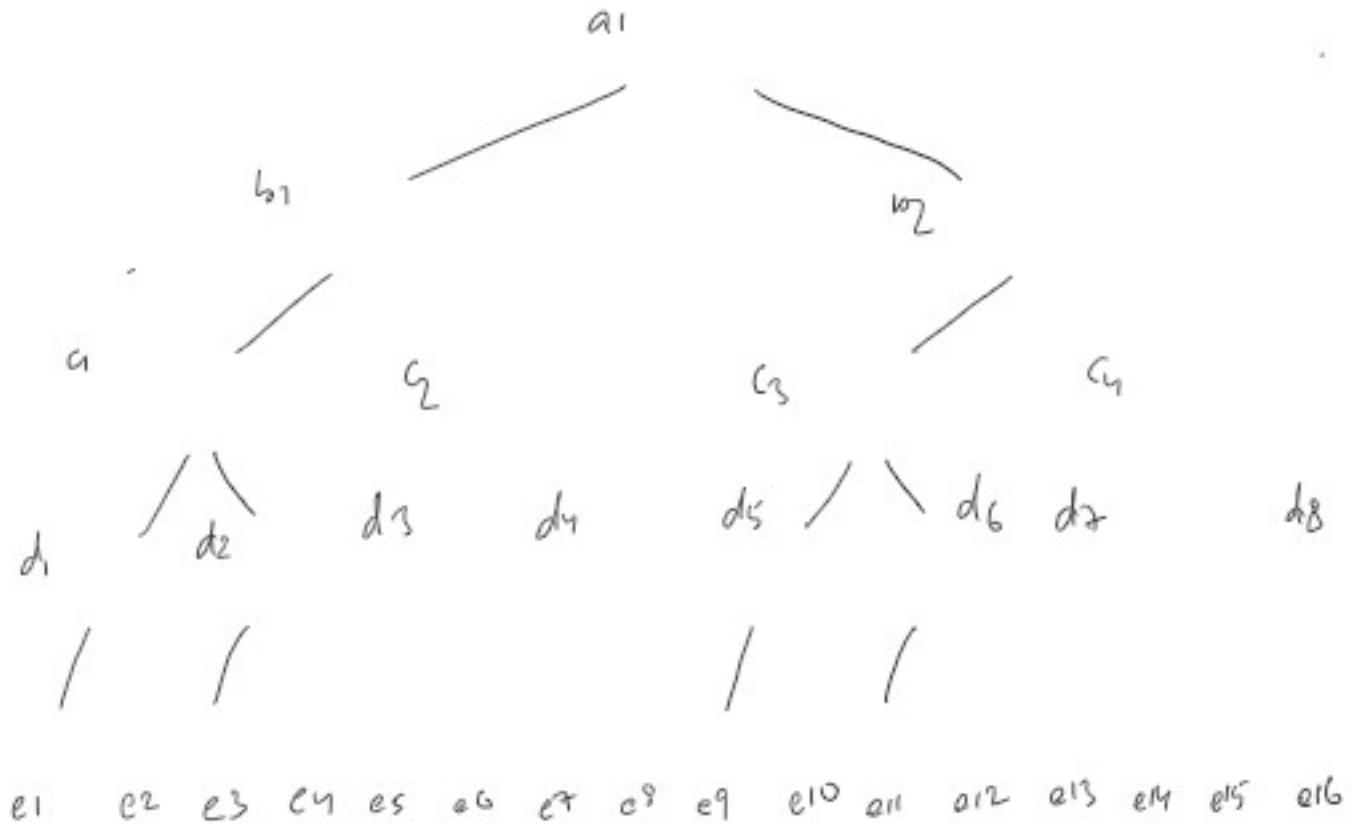

Acut
Bcut

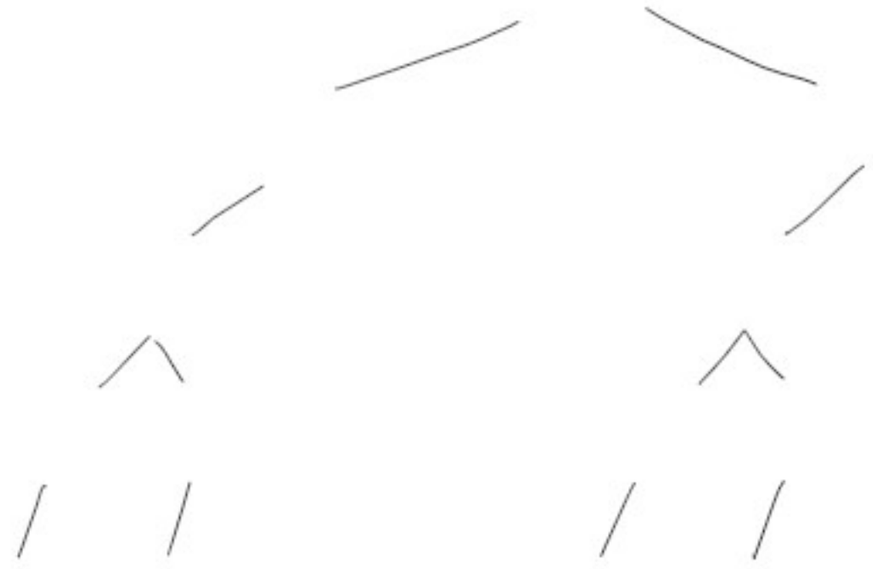




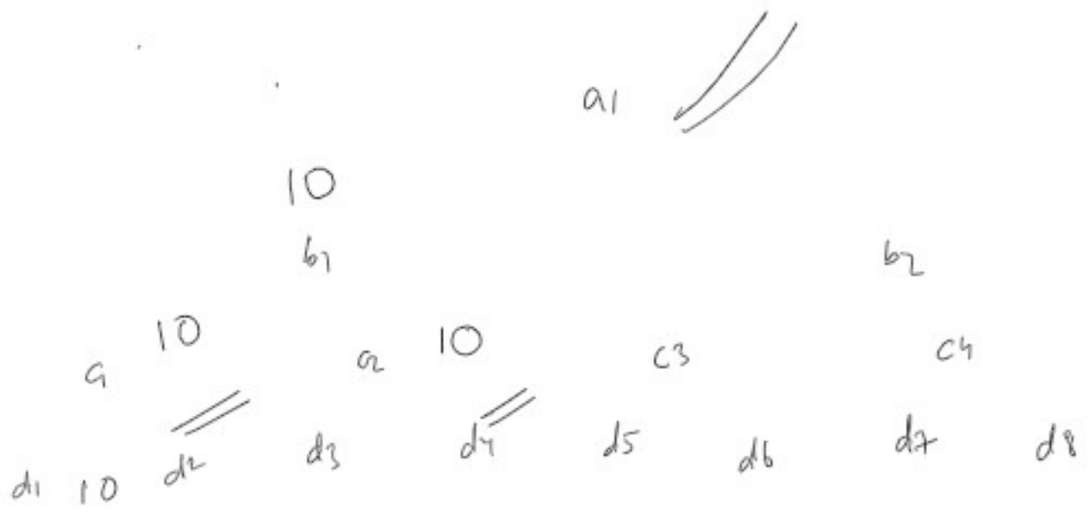
} initial clusters
max all
min 1 left

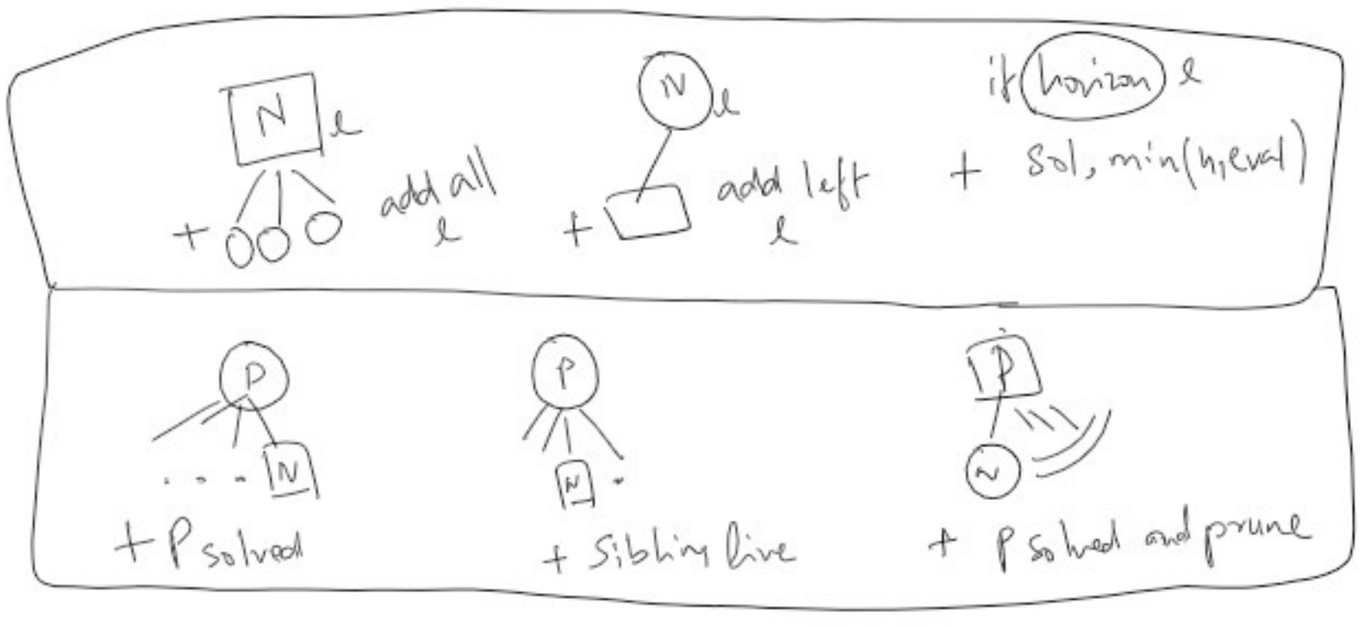

N live
Add all children
N live
Add leftchild
P solved
N
P
N
Add next siblings
P solved
N


a1
b1
b2
c1
c2
c3
c4
d1
d2
d3
d4
d5
d6
d7
d8
e1
e2
e3
e4
e5
e6
e7
e8
e9
e10
e11
e12
e13
e14
e15
e16



$e_1 s_{10}$ ~~$e_1 s_{10}$~~ $e_2 s_{10}$ $e_3 s_9$ $e_9 s_5$ $e_{11} s_4$





$e_1 s_{10}$ $e_3 s_9$ $e_9 s_5$ $e_{11} s_4$

$e_2 l_{11}$ $e_3 s_9$ $e_9 s_5$ $e_{11} s_4$

$e_2 s_{,10}$ $e_3 s_9$ $e_9 s_5$ $e_{11} s_4$

$d_1 s_{10}$ ~~$e_3 s_9$~~ $e_9 s_5$ $e_{11} s_4$

$c_1, s_{,10}$ $e_9 s_5$ $e_{11} s_4$

$c_2, l_{,10}$ $e_9 s_5$ $e_{11} s_4$

$d_3, l_{,10}$ $d_4 l_{10}$ $e_9 s_5$ $e_{11} s_4$

$e_5 l_{10}$ $d_4 l_{10}$ $e_9 s_5$ $e_{11} s_4$

$c_5 s_{10}$ $d_4 l_{10}$ $e_9 s_5$ $e_{11} s_4$

$e_6 l_{10}$ $d_4 l_{10}$ $e_9 s_5$ $e_{11} s_4$

$e_6 s_{10}$ $d_4 l_{10}$ $e_9 s_5$ $e_{11} s_4$

$d_3 s_{10}$ $d_4 l_{10}$ $e_9 s_5$ $e_{11} s_4$

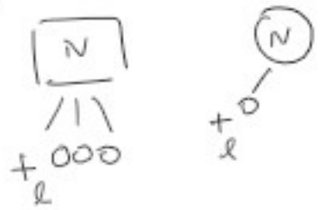
$c_2 s_{10}$ $e_9 s_5$ $e_{11} s_4$

~~$s_{,10}$~~ ~~$e_9 s_5$~~ ~~$e_{11} s_4$~~

$a_1 s_{10}$

10

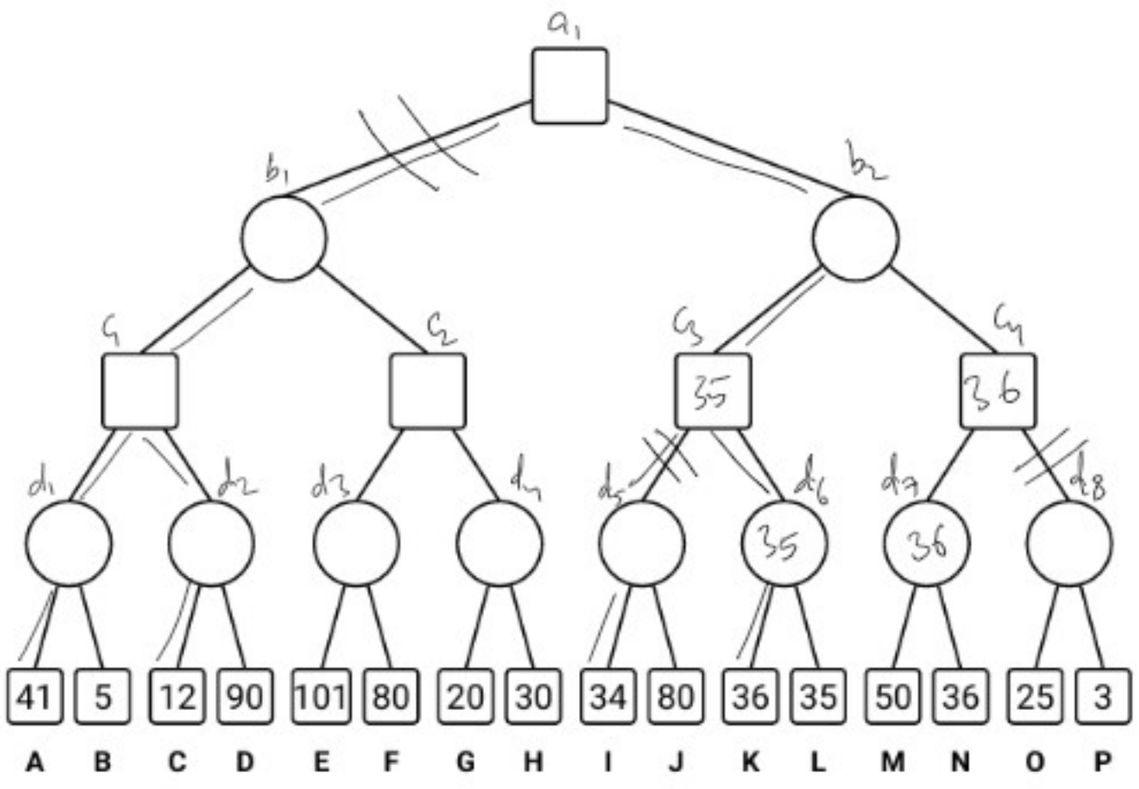
live



if horizon

$+_s \min(h, \text{eval})$

Solved



h=41					
	0	$e_1 s41$	$e_{11} s36$	$e_9 s34$	$e_3 s12$
	1	$e_2 \ell 41$	$e_{11} s36$	$e_9 s34$	$e_3 s12$
	2	$e_{11} s36$	$e_9 s34$	$e_3 s12$	$e_2 s5$
	3	$e_{12} \ell 36$	$e_9 s34$	$e_3 s12$	$e_2 s5$
	4	$e_{12} s35$	$e_9 s34$	$e_3 s12$	$e_2 s5$
	5	$d_6 s35$	$e_9 s34$	$e_3 s12$	$e_2 s5$
	6	$c_3 s35$		$e_3 s12$	$e_2 s5$
	7		$c_4 \ell 35$	$e_3 s12$	$e_2 s5$
	8	$d_7 \ell 35$	$d_8 \ell 35$	$e_3 s12$	$e_2 s5$
	9	$e_{13} \ell 35$	$d_8 \ell 35$	$e_3 s12$	$e_2 s5$
	10	$e_{13} s35$	$d_8 \ell 35$	$e_3 s12$	$e_2 s5$
	11	$e_{14} \ell 36$	$d_8 \ell 35$	$e_3 s12$	$e_2 s5$
	12	$e_{14} s35$	$d_8 \ell 35$	$e_3 s12$	$e_2 s5$
	13	$d_7 s35$	$d_8 \ell 35$	$e_3 s12$	$e_2 s5$
	14	$c_4 s35$		$e_3 s12$	$e_2 s5$
	15	$b_2 s35$	$e_3 s12$	$e_2 s5$	
	16	$a_1 s35$			
	17	[ ]			

SSS*

t_2 add all children

t_2 left child

if horizon

t_3 min(h, eval)

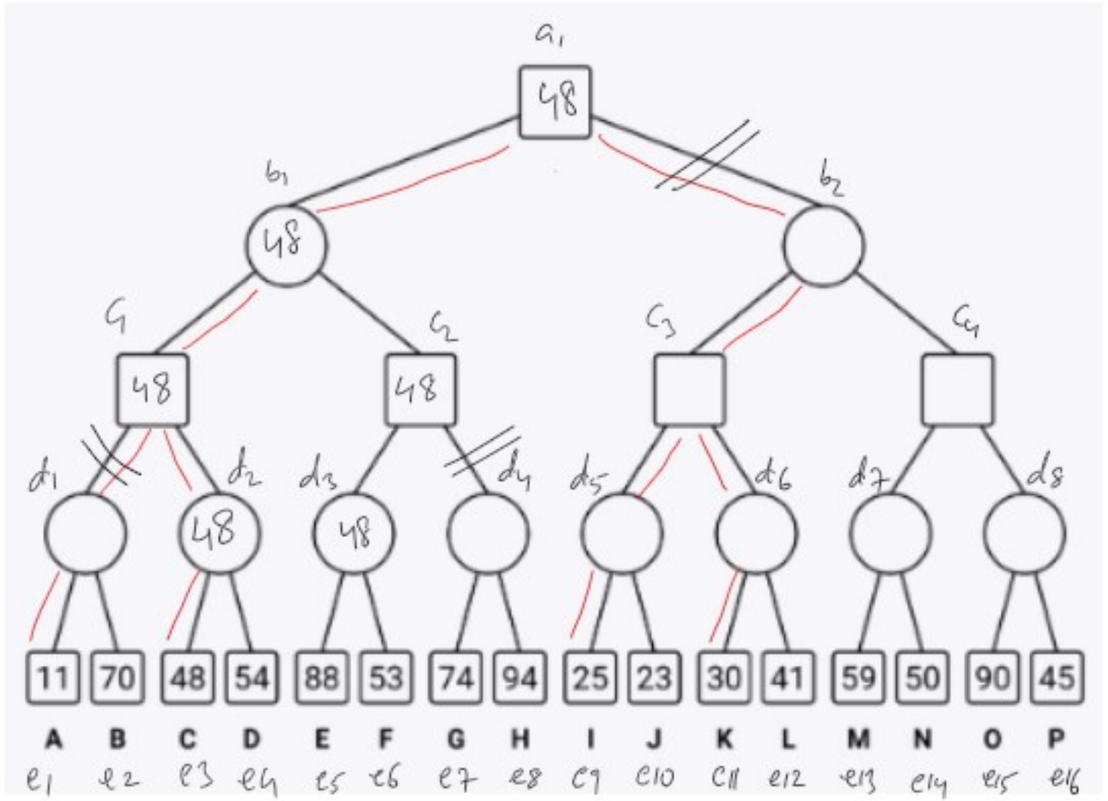
t_1 P

t_2 next sibling

t_3 P & prune siblings

Initial Cluster Horizon Nodes

A, C, I, K



SSS* Solved status for Horizon nodes

A, C, I, K, D, E, F

Order: A, C, D, E, F, I, K

0	$e_3 S48$	$e_{11} S30$	$e_9 S25$	$e_1 S11$	→ Initial Clusters
1	$e_4 l48$	$e_{11} S30$	$e_9 S25$	$e_1 S11$	
2	$e_4 S48$	$e_{11} S30$	$e_9 S25$	$e_1 S11$	
3	$d_2 S48$	$e_{11} S30$	$e_9 S25$	$e_1 S11$	
4	$c_1 S48$	$e_{11} S30$	$e_9 S25$		
5	$c_2 l48$	$e_{11} S30$	$e_9 S25$		
6.	$d_3 l48$	$d_4 l48$	$e_{11} S30$	$e_9 S25$	
7.	$e_5 l48$	$d_4 l48$	$e_{11} S30$	$e_9 S25$	
8.	$e_5 S48$	$d_4 l48$	$e_{11} S30$	$e_9 S25$	
9.	$e_6 l48$	$d_4 l48$	$e_{11} S30$	$e_9 S25$	
10.	$e_6 S48$	$d_4 l48$	$e_{11} S30$	$e_9 S25$	
11.	$d_3 S48$	$d_4 l48$	$e_{11} S30$	$e_9 S25$	
12.	$c_2 S48$		$e_{11} S30$	$e_9 S25$	
13.	$b_1 S48$	$e_{11} S30$	$e_9 S25$		
14.	$a_1 S48$				
15.	[ ]				