



Intial State

S_1

S_2

S_3

S_4

First level

$S_1 S_2$

$S_1 S_3$

$S_1 S_4$

$S_2 S_3$

$S_2 S_4$

$S_3 S_4$

Second level

$S_1 S_2 S_3$

$S_1 S_2 S_4$

$S_1 S_3 S_4$

$S_2 S_3 S_4$

Third level

$S_1 S_2 S_3 S_4$