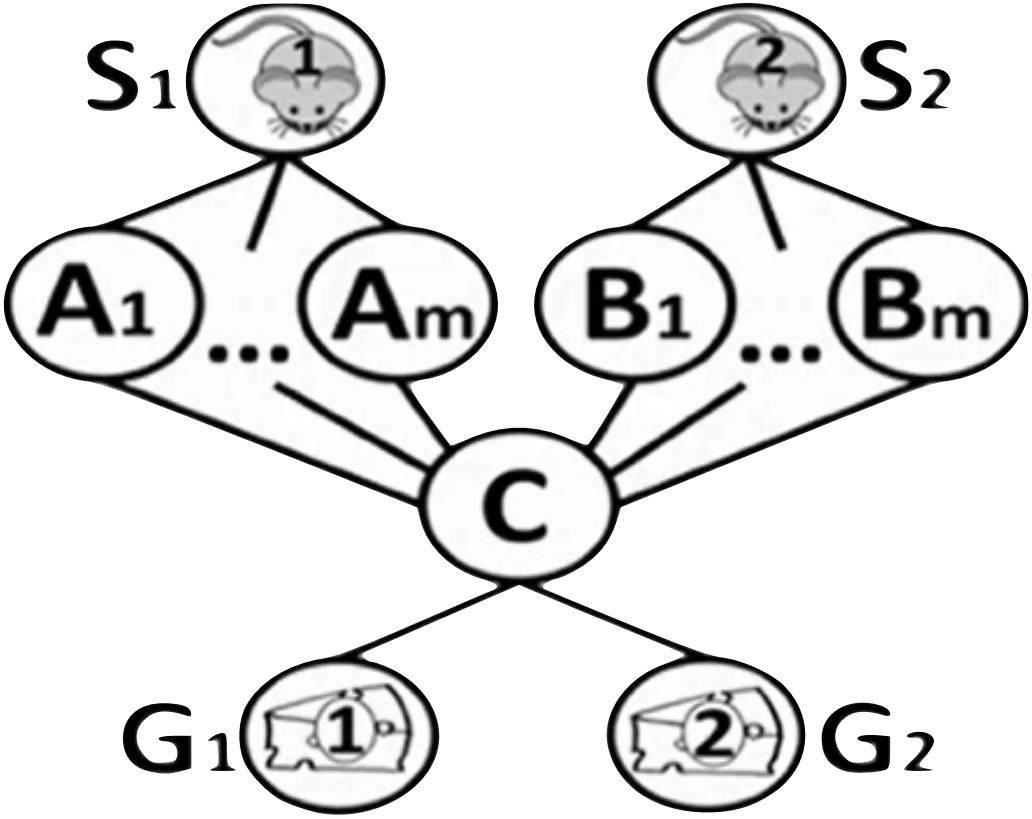


Expand

<u>Con:</u> {}	<u>Cost:</u> 6
<u>Sol</u> $\left\{ \begin{array}{l} 1- S1, A1, C, G1 \\ 2- S2, B1, C, G2 \end{array} \right\}$	

Conflict
{1,2,C,t}

Not Goal



CBS : general idea

- (1) 为每一个代理单独规划路径
- (2) 验证这个规划会不会产生冲突
- (3) 如果这个规划 A 和 B 产生冲突了

通过添加约束来解决这个冲突 (约束 A 或者约束 B)



Expand

<u>Con</u> : {}	<u>Cost</u> : 6
<u>Sol</u> $\left\{ \begin{array}{l} 1- S1, A1, C, G1 \\ 2- S2, B1, C, G2 \end{array} \right\}$	

{1,2,C,2}

Replan 1

Replan 2

<u>Con</u> : {(1,C,2)}	<u>Cost</u> : 7
<u>Sol</u> $\left[\begin{array}{l} 1- S1, A1, A1, C, G1 \\ 2- S2, B1, C, G2 \end{array} \right]$	

<u>Con</u> : {(2,C,2)}	<u>Cost</u> : 7
<u>Sol</u> $\left[\begin{array}{l} 1- S1, A1, C, G1 \\ 2- S2, B1, B1, C, G2 \end{array} \right]$	

