













EECS 124, UC Berkeley: 7







![](_page_5_Figure_0.jpeg)

![](_page_5_Figure_1.jpeg)

![](_page_6_Figure_0.jpeg)

```
\phi_i = robot picks up item i, 1 \le i \le n
Goal to be achieved is:
\mathbf{F} \phi_1 \land \mathbf{F} \phi_2 \land \ldots \land \mathbf{F} \phi_n
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```

![](_page_6_Figure_2.jpeg)

![](_page_7_Figure_0.jpeg)

![](_page_7_Figure_1.jpeg)

Exercise

Can we do reachability analysis backwards?

I.e.: start with s instead of  $\mathsf{Q}_{0},$  and then follow the update function  $\delta$  backwards...

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