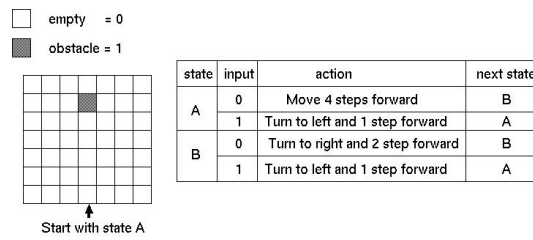


Name ()

- Following the transition table of the FSA shown below, draw the trace of machine that starts the center of botom of the grid-world shown with its state being A.



- Create a transion table of the FSA that recognizes (accepts) strings on alphabet $\{a, b, c, d\}$ with an alphabetical order, such as *aabccdd*.

- Using the Rule shown below, derive the string *aaaabbbbcccc*.

$S \Rightarrow a b c$
 $S \Rightarrow a S B c$
 $b B \Rightarrow b b$
 $c B \Rightarrow B c$
