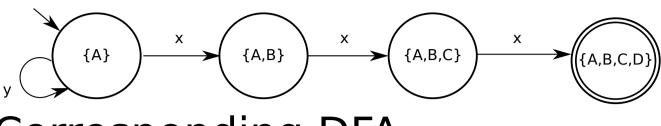
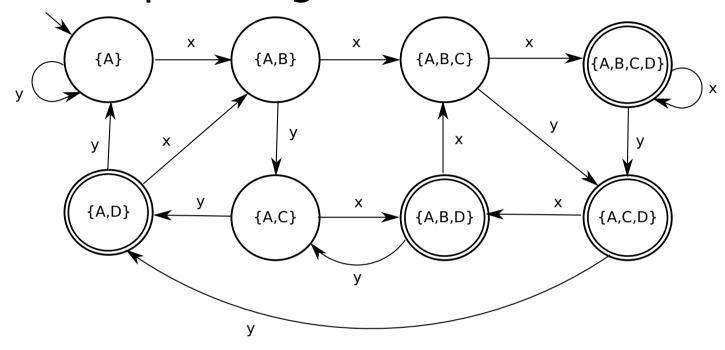
Initial NFA



Corresponding DFA



It's interesting in this particular case that each state intuitively represents a configuration of the last 3 characters seen:

```
state {A} = none of the last 3 are x (i.e 3-character suffix of the string seen so far is yyy) state {A,B} = suffix xyy state {A,B,C} = suffix xxy state {A,B,C,D} = suffix xxx state {A,D} = suffix xyy state {A,C} = suffix yxy) state {A,C} = suffix xyx state {A,C,D} = suffix xyx
```

To build the DFA:

Add an edge from state α on character c to state β if β represents the union of states that all states in α could possibly transition to on character c