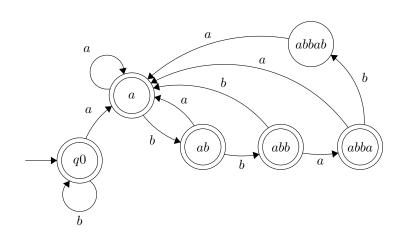
CS 321, Assignment 1

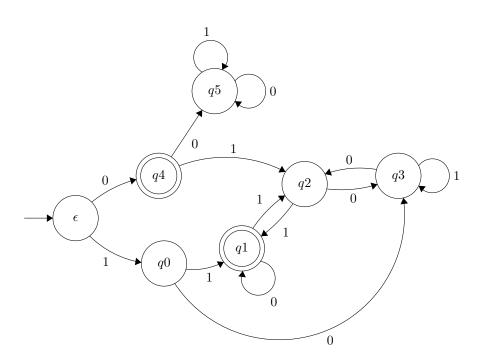
Cody Malick malickc@oregonstate.edu

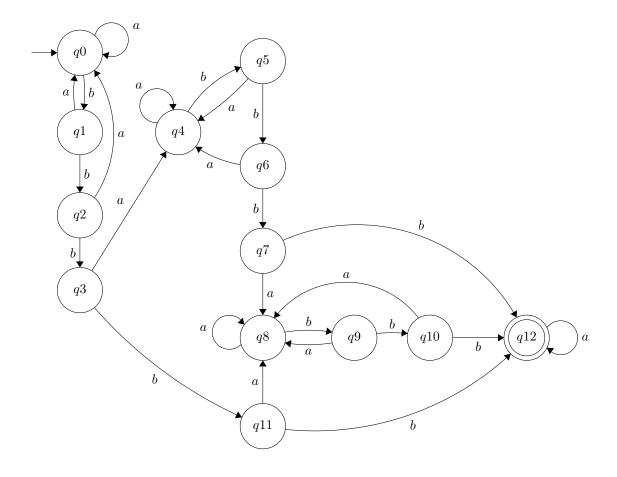
September 30, 2016

1

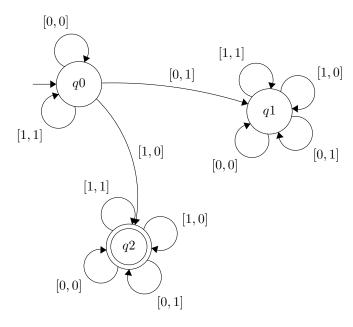


 $\mathbf{2}$





Note: The format of the nation in this diagram is [top row, bottom row]. [1,0] would be 1 in the top row, and a 0 in the bottom.



5

```
Base Case: rev(\epsilon) = \epsilon

rev(wb) = b \ rev(w)

Inductive Step:

For |y| + 1:

rev(xy) = rev(yb) \ rev(x)

= b \ rev(y) \ rev(x)
```