submission.md

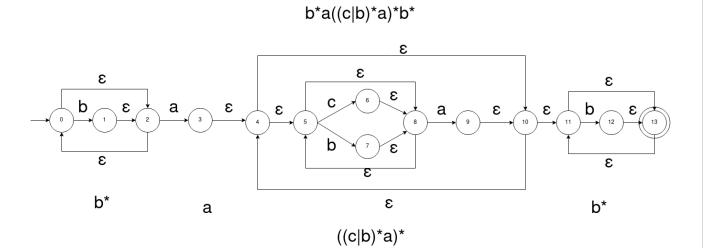
Problem Set 1

Nicolai H. Brand

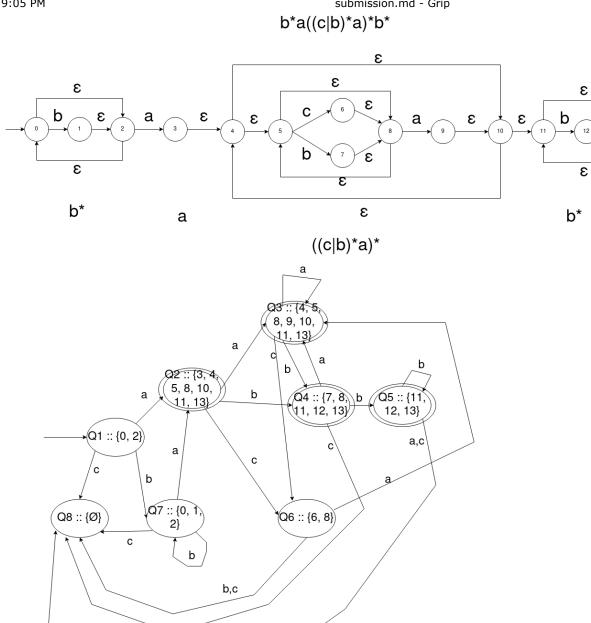
1

1.1

1.2



1.3



1.4 Distinguish final and non-final states

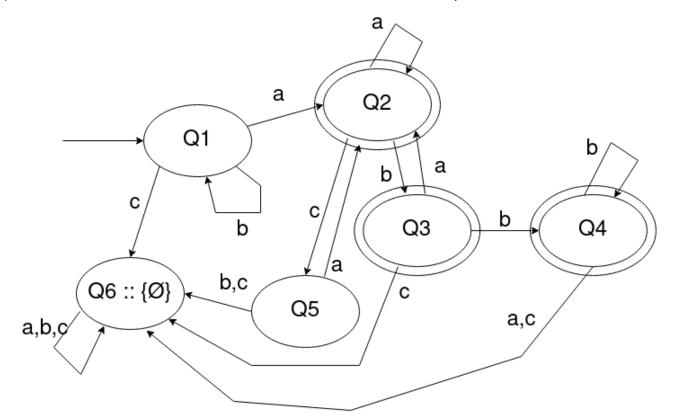
	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
Q1	-	-	-	-	-	-	-	-
Q2	Х	-	-	-	-	-	-	-
Q3	Х		-	-	-	-	-	-
Q4	Х			-	-	-	-	-

	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
Q5	Х				-	-	-	-
Q6		Х	Х	Х	Х	-	-	-
Q7		Х	Х	Х	Х		-	-
Q8		Х	Х	Х	Х			-

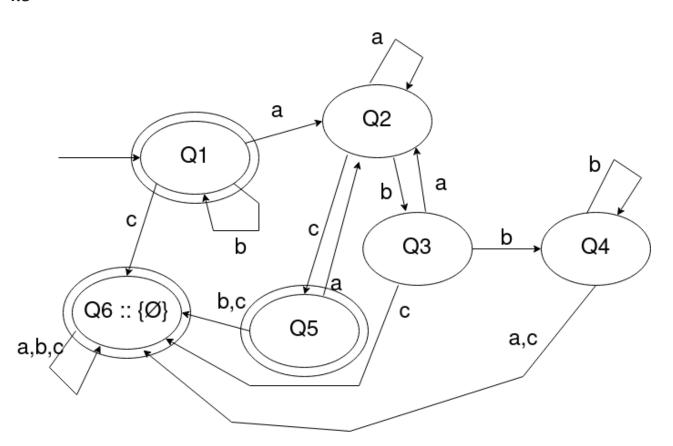
Distinguish on delta function

	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
Q1	-	-	-	-	-	-	-	-
Q2	Х	-	-	-	-	-	-	-
Q3	Х	=	-	-	-	-	-	-
Q4	Х	Х	Х	-	-	-	-	-
Q5	Х	X	X	X	-	-	-	-
Q6	Х	X	X	X	Х	-	-	-
Q7	=	X	Х	X	Х	Х	-	-
Q8	Х	X	Х	X	Х	Х	Х	-

Minimzed DFA



1.5



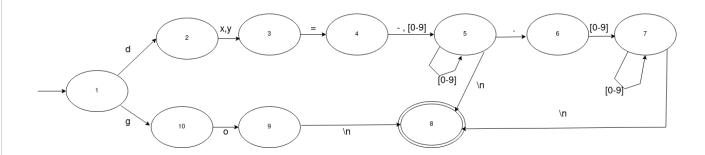
2

2.1

$$(d(x|y)=-?.?[0-9]+(.[0-9]+)?|go)$$

2.2

 $(d(x|y){=}{-}?[0{-}9]{+}(.[0{-}9]{+})?|go) \backslash n$



2.3

error: 6038: unrecognized statement: dy=-2.55.