

CSC236 tutorial exercises #6

(Best before 6 pm, Thursday November 15th)

Danny Heap

Here are your tutorial sections:

Surname	Section	Room	TA
A–F	Day 1 (11:00 am)	LM162	Yuval
G–Li	Day 2 (11:00 am)	BA2139	Lila
Lo–Si	Day 3 (11:00 am)	BA2145	Oles
So–Z	Day 4 (11:00 am)	BA2155	Lalla
A–H	Evening 1 (8:00 pm)	BA1190	Colin
I–M	Evening 2 (8:00 pm)	BA2135	Norman
N–Z	Evening 3 (8:00 pm)	BA2139	Feyyaz

These exercises are meant to give you practice devising DFSA's and manipulating formal languages. They are based on sections 7.1 and 7.3 of the [Course Notes](#).

1. Devise a DFSA that accepts the language of finite binary strings whose length is a multiple of 3. Explain why it is correct.
2. Suppose L is the language of finite binary strings consisting of one or more 1s concatenated with one or more 0s. Describe $\text{Rev}(L)$, L^* , and $\text{Rev}(L) \circ L^*$.