

CSC236 tutorial exercises #8

(Best before 6 pm, Thursday November 29th)

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 |

This exercise is meant to give you experience with converting DFSAs to regular expressions, and vice-versa, see Section 7.6 of [Course Notes](#).

1. Devise an NFSA to accept $L(((0 + 1)(01)^*))$
2. Devise a DFSA that accepts the language of strings over $\{0, 1\}$ with an odd number of 1s and an even number of 0s. From the DFSA, devise the regular expression that denotes the same language.