

# Assignment 1



Given  $\Sigma = \{0,1\}$ :

1. write a RE for strings with odd 0s or odd 1s. (2 marks)
  1. Reasoning (1 mark)
  2. RE (1 mark)
2. build a DFA for all strings that do not contain 010. (4 marks)
  1. RE and reasoning (2 mark)
  2. DFA (2 marks)

## Submission

- A single PDF file with any form
  - Student number\_name\_asg1.pdf (no space), e.g., 123456\_张三\_ asg1.pdf
  - clear photos and screenshots are acceptable
- Send your PDF to [dcs290\\_cs2\\_sysu@163.com](mailto:dcs290_cs2_sysu@163.com) by 2023.03.16

