

Homework 2

Due: 8:00am Monday Feb 18 in Gradescope.

Only if you have a valid excuse (hospitalization, etc), you may submit by 8:00am Wed Feb 20 in Gradescope.

1. Exercise 1.7e
2. Give regular expressions generating the languages of Exercise 1.6(e to l).
3. Exercise 1.16(b)
4. Exercise 1.19(b)
5. Exercise 1.20(e to h)
6. Exercise 1.21(b)
7. Use the pumping lemma to show that the language A is not regular.
 $A = \{a^{n^2} \mid n \geq 0\}$. Here, a^{n^2} means a string of n^2 a symbols.