

Assignment 2
Total marks: 20
Due: April 27, 2022, 5:00 pm.

CSE331

Your solutions need to be handwritten. After writing down your solutions, scan and compile them into a single pdf file. Details on where and how to upload your solutions are on buX.

Problem 1 (10 points)

Find a context-free grammar that generates the following language.

$$L = \{0^i 1^j 2^k : i + k \geq j \text{ and } i, j, k > 0\}$$

Problem 2 (10 points)

Design a pushdown automaton for the same language.