

Q4

Saturday, June 6, 2020

1:41 PM

Design a CFG for L_2

$$L_2 = \{a^n b^m c^h \mid n, m, h \in \mathbb{Z}^+, 2h \geq n - 3m\}$$

$$S_0 \rightarrow S_0 b \mid S_1 \mid S$$

$$S_1 \rightarrow S_1 c \mid S$$

$$S \rightarrow aaSc \mid aaBc$$

$$B \rightarrow aaaBb \mid aaab$$