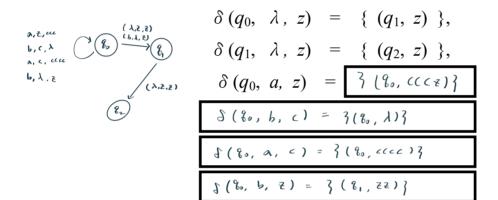
## **Assignment 14**

## **Automata & Theory of Computation**

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- 1. Answer the following questions.
- 1) Fill in the blanks to construct an npda  $M=(\{q_0,q_1,q_2\},\{a,b\},\{c,z\},\delta,q_0,z,\{q_2\})$  that accepts the language  $L=\{a^nb^{3n}:n\geq 0\}.$



2) Fill in the blanks to show the npda above accepts the string abbb.

$$(q_0, abbb, z) \vdash (\ell_0, bbb, ccct) \vdash (\ell_0, bb, cct) \vdash (\ell_0, bb, cct) \vdash (\ell_0, b, ct) \vdash (q_2, \lambda, z)$$