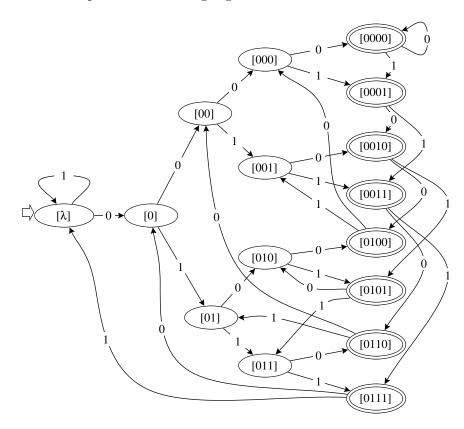
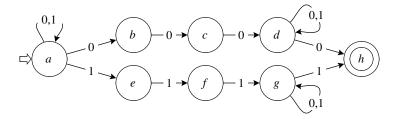
HW 3 Due: 08 sep 2017

- 1. Define a DFA, simplified to the best of your abilities, to recognize the language $L=\{a^ib^j:(i+j) \bmod 3=0\}.$
- 2. Describe in a short English sentence the language accepted by the following DFA, and give a regular expression for it (hint: the "names" of the states reflect their meaning). Then, define a 5-state NFA that accepts the same language.



3. Define a DFA equivalent to the following NFA.



100

100