Homework 6.

Part A & B. (see weighted automaton)

Part C.
P("pcl p er m ax nx ix n q") = 1*1*1*(1/8)*1*(2/3)*(1/2)*(1/6)*1 = 0.0069444

Part D.
The most probable pronunciation is “pcl p er m ix nx ix q”
P(“pcl p er m ix nx ix q”) = 1*1*1*(1/2)*(1/2)*(2/3)*(1/2)*1 = 0.083333