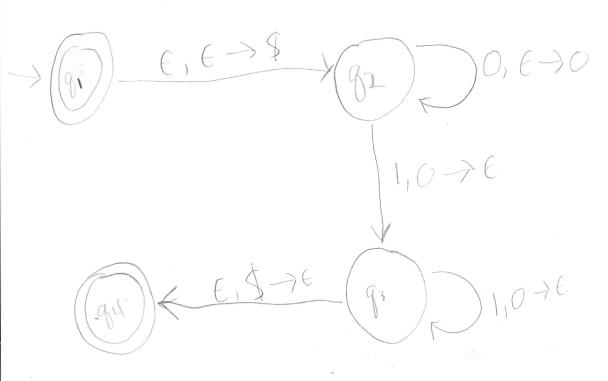
PDA to CFG



1) A:; if i==; the A:; => E

1) Aqiqi → E

2) For states pigir Apg => Apr Arg

Aqiqi → E

3) Apg => a Ars b

Aqiqi → E

Aqiqi → E

3) Apg => a Ars b

Aququ → E
Aququ Aq

pumping lemma S=OP12POPEL Lis context free S= string P= pumping length By Pumping lemma · S=4Vx92, 1Vy>0, 1Vx9/5p izo, wuvxyz EA 5=0" 12h 0h n=Z 5=02402 5=00111100 4 200 4 v2 x y2 z2 001111110100 =5

7=10 S'is not a palindrame 20 So by Pumping lemma B's not context free 1 = 2

If vxy contains a 1, there cannot be a 2 & vice versa.

If vxy contains a 3, there cannot be a 4 & vice versa.

Therefore from 2) it violates the pumping lemma & C is not context free.