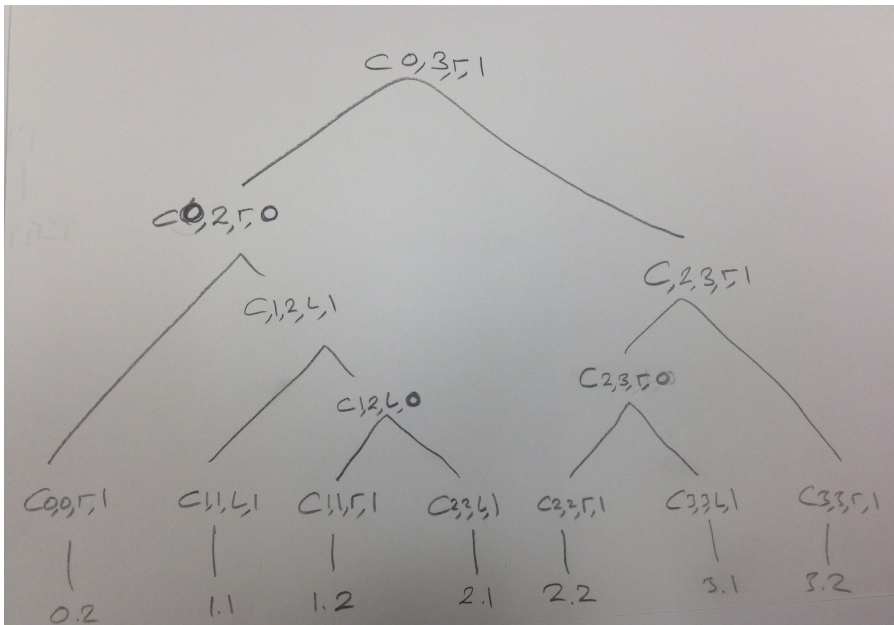


Question 1

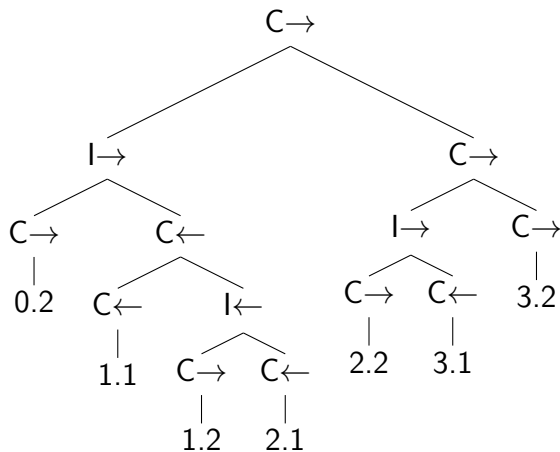
$$g_1(x, h, m) = 1 \text{ if } x_h = \text{car and } x_m = \text{the}$$

$$g_2(x, h, m) = 1 \text{ if } POS(h) = \text{NN and } POS(m) = \text{DT} \\ \text{and } POS(i) \neq \text{VB for } i \in \{(h+1) \dots (m-1)\} \\ \text{and } i \in \{(m+1) \dots (h-1)\}$$

Question 2a



Question 2a



Question 3

- ▶ $C(\text{the}) = 1, C(\text{dog}) = 2$
- ▶ $e(\text{the}|1) = e(\text{dog}|2) = 1$
- ▶ $q(1|2) = q(2|1) = 1$