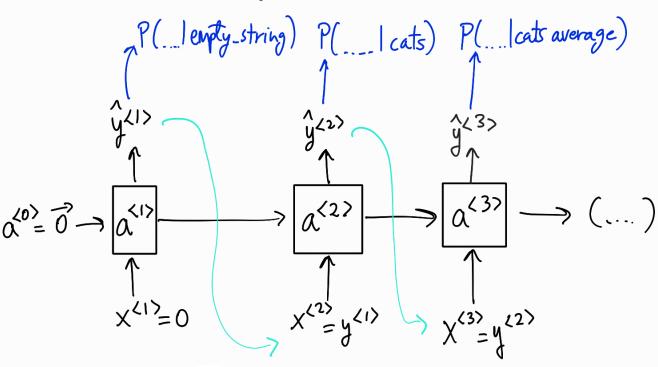
We want to generate the sentence:

"Cat average 15 hours of sleep a day."

So, we build the following RNN:

P(lenty-string) P(leats average)



$$\mathcal{L}(\hat{y}^{< t>}, y^{< t>}) = -\sum_{i} y_{i}^{< t>} \log \hat{y}_{i}^{< t>}$$

$$\mathcal{L} = \sum_{i} \mathcal{L}^{< t>}(\hat{y}^{< t>}, y^{< t>})$$

So, we are calculating the joint probability!! $P(y(1), y(2), ..., y(T_2))$

Each computed y(i) is usually a softmax distribution, which gives us the chance that the ith word is ... for each word of the vocabulary.

For y(1), we use this distribution and compute up. random!) for sampling.