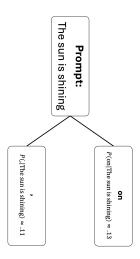
## 1 Beam Search

In this problem, you will use the beam search algorithm to generate text given the prompt "The sun is shining". To get the probabilities, you should use the next\_token\_probs function in the beam search colab notebook that is linked on the course website.

The first step is performed for you. Perform as many steps as you can. Use a beam width of 2, and turn the sheet sideways!



## 2 Evaluating Generated Text with BLEU Score

Compute the modified bigram precision given the following two reference texts:

Reference 1: The sun is shining on the horizon Reference 2: The sun shines on the horizon

Candidate Text	$p_1$	$p_2$
The shining sun rises over the horizon		
Over the horizon is the sun		

If you have extra time, you can compute precision scores for larger values of n.