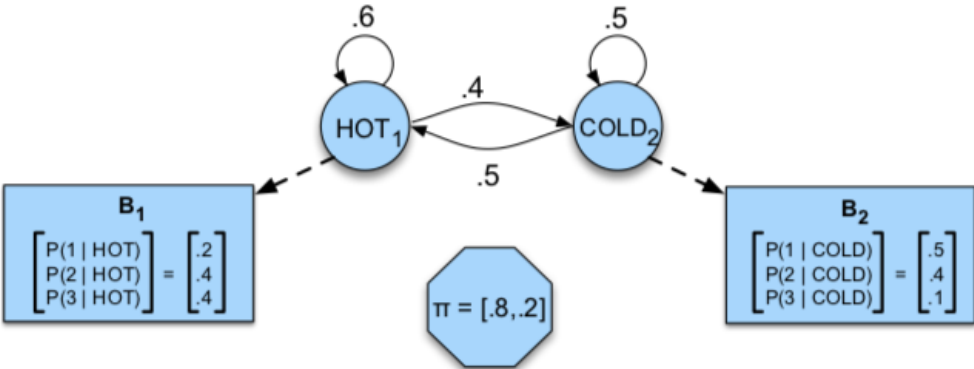


HMM Exercise

Suppose you have the following parameters for an HMM:



And you observe  $\mathbf{O} = 1 \ 3 \ 2$

1. Fill in the trellis for the forward probabilities. What is the likelihood?

$q_1$ (HOT)			
$q_2$ (COLD)			
	$o_1 = 1$	$o_2 = 3$	$o_3 = 2$

2. Fill in the trellis for Viterbi. What's the most likely hidden sequence?

$q_1$ (HOT)			
$q_2$ (COLD)			
	$o_1 = 1$	$o_2 = 3$	$o_3 = 2$