Viterbi decoding

Let $Q_{t,s}$ be the most probable sequence of hidden states of length t that finishes in the state s and generates $o_1, ..., o_t$. Le $q_{t,s}$ be the probability of this sequence.

Then $q_{t,s}$ can be computed dynamically:

 $Q_{t,s}$ can be determined by remembering the argmax.