

function STACK-DECODING() **returns** *min-distance*

Initialize the priority queue with a null sentence.

Pop the best (highest score) sentence s off the queue.

If (s is marked end-of-sentence (EOS)) output s and terminate.

Get list of candidate next words by doing fast matches.

For each candidate next word w :

 Create a new candidate sentence $s + w$.

 Use forward algorithm to compute acoustic likelihood L of $s + w$

 Compute language model probability P of extended sentence $s + w$

 Compute “score” for $s + w$ (a function of L , P , and ???)

 if (end-of-sentence) set EOS flag for $s + w$.

 Insert $s + w$ into the queue together with its score and EOS flag