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