Stack Decoding Algorithm

1: place empty hypothesis into stack 0
2: **for all** stacks $0...n-1$ **do**
3:      **for all** hypotheses in stack **do**
4:          **for all** translation options **do**
5:              **if** applicable **then**
6:                  create new hypothesis
7:                  place in stack
8:                  recombine with existing hypothesis **if** possible
9:                  prune stack **if** too big
10:             **end if**
11:         **end for**
12:     **end for**
13: **end for**