Write pseudocode for the BLAST database search algorithm.
Input is
1) a query sequence \( Q \)
2) a database \( DB \) containing \( M \) sequences
3) an index \( F \) relating each 3-tuple to locations \( L \) in \( DB \) sequence \( S \).
4) a neighborhood words list \( N \) relating each 3-tuple to 50 similar 3-tuples.
Other data structures are created by the program.

Steps: (a) identity matches of 3-tuples to neighborhood words, (b) HSP generation, (c) FASTA alignment and triaging, (d) DP, (e) e-value

Write pseudocode for the FASTA algorithm
**input:** a matrix of HSPs (high scoring pairs, or extended seeds), each with start,end pairs \((i,j),(k,l)\) and a score \( H \).
**output:** An alignment consisting of a sequential set of HSPs.
**Algorithm:** "Greedy" with sequentiality constraint. No new HSP can have a point "north-east" or "south-west" of any accepted HSP.