Require: $\Xi, \Theta, l, d$
set a suitable $\gamma$ according to the available memory

for a pattern $P$ in $\Xi$ do
  for $i \leftarrow 1$ to $\lfloor l/\gamma \rfloor$ do
    put $P$ into $(P_{\gamma,i}, \gamma, i, l, d)$-group
  end for
end for

repeat
  $\Phi \leftarrow$ pulling the patterns that have yet to be processed in $\Theta$ according to the size of memory

for a pattern $Q$ in $\Phi$ do
  put $Q$ into $(\Gamma, \gamma, i, l, d)$-groups if $Q$ is $(\gamma, i, \lfloor \gamma d/l \rfloor)$-matched to a $\gamma$-pattern $\Gamma$, where $1 \leq i \leq \lfloor l/\gamma \rfloor$
end for

while there are $(\Upsilon, \gamma, i, l, d)$-groups yet to be processed do
  wait for a processor that completes the task that it is given
  $\Delta \leftarrow$ an unprocessed $(\Upsilon, \gamma, i, l, d)$-group
  assign the processor to process $\Delta$ \{beginning of parallel processing\}
  for a pattern $P$ in $\Delta_{\Xi}$ do
    compare $P$ to all patterns in $\Delta_{\Phi}$
    if any $(l, d)$-similar pattern to $P$ is found then
      discard $P$ from $\Delta_{\Xi}$ and $\Xi$
    end if
  end for \{ending of parallel processing\}
end while
until all patterns in $\Theta$ are processed
return the remaining patterns in $\Xi$