```
function CHART-PARSE(string, grammar) returns chart

  chart[0] ← {[0, 0, S' → • S]}
  for v ← from 1 to LENGTH(string) do
    SCANNER(v, string[v])
  end
  return chart

  procedure ADD-EDGE(edge)
      if edge in chart[END(edge)] then do nothing
      else
          push edge on chart[END(edge)]
          if COMPLETE?(edge) then COMPLETER(edge)
          else PREDICTOR(edge)

  procedure SCANNER(j, word)
      for each [i, j, A → α • B β] in chart[j] do
          if word is of category B then
              ADD-EDGE([i, j+1, A → α B • β])
      end

  procedure PREDICTOR([i, j, A → α • B β])
      for each (B → γ) in REWRITES-FOR(B, grammar) do
          ADD-EDGE([j, j, B → • γ])
      end

  procedure COMPLETER([j, k, B → γ •])
      for each [i, j, A → α • B' β] in chart[j] do
          if B = B' then
              ADD-EDGE([i, k, A → α B' • β])
      end
```