function NONDETERMINISTIC-CHART-PARSE(*string, grammar*) **returns** *chart*

INITIALIZER:
  chart $\leftarrow [0, 0,\ S' \rightarrow \bullet\ S]$
while new edges can still be added **do**
  edge $\leftarrow$ **choose** $[i, j,\ A \rightarrow \alpha \bullet B\ \beta]$ **in** *chart*
  choose one of the three methods that will succeed:
    PREDICTOR:
      choose $(B \rightarrow \gamma)$ **in** RULES[*grammar*]
      add $[j, j,\ B \rightarrow \bullet\ \gamma]$ to *chart*
    COMPLETER:
      choose $[j, k,\ B \rightarrow F \bullet]$ **in** *chart*
      add $[i, k,\ A \rightarrow \alpha\ B \bullet\ \beta]$ to *chart*
    SCANNER:
      if *string*$[j + 1]$ is of category B **then**
        add $[j, j + 1,\ A \rightarrow \alpha\ B \bullet\ \beta]$ to *chart*
end
return *chart*