```
procedure Closure( I an item set of the grammar G )
returns an item set of G, which may be the same as I
Recall that P is the set G's production rules; A, B \in N,
the set of G's non-terminals, and \alpha, \beta \in (N \cup \Sigma_{\$})*
are sequences of grammar symbols.
let C be a copy of I
repeat (
   foreach ( A \rightarrow \alpha \bullet B\beta in C ) do (
        if ( B \rightarrow \pi \in P and B \rightarrow \bullet \pi \notin C) then
        add B \rightarrow \bullet \pi to C
        )
        )
        until ( C is unchanged )
return C
```