```
procedure MEMBER(item, list, continuation)

    trail ← GLOBAL-TRAIL-POINTER()
    if UNIFY([item | NEW-VARIABLE()], list) then CALL(continuation)
    RESET-TRAIL(trail)
    rest ← NEW-VARIABLE()
    if UNIFY(list, [NEW-VARIABLE() | rest]) then MEMBER(item, rest, continuation)
```