```
find_SG(⟨P, T, F, M_0, N, s_0, λ_T⟩)
  M = M_0; s = s_0; S = {M}; λ_S(M) = s;
  T_e = {t ∈ T | M ⊆ •t}; done = false;
  while (¬ done)
    t = select(T_e);
    if (T_e − {t} ≠ ∅) then push(M, s, T_e − {t});
    if ((M − •t) ∩ t• ≠ ∅) then return("Not safe.");
    M' = (M − •t) ∪ t•; s' = s;
    if (λ_T(t) = u+) then s'(u) = 1;
    else if (λ_T(t) = u−) then s'(u) = 0;
    if (M' ∉ S) then
      S = S ∪ {M'}; λ_S(M') = s' δ = δ ∪ {(M, t, M')};
      M = M'; s = s'; T_e = {t ∈ T | M ⊆ •t};
    else
      if (λ_S(M') ≠ s') then return("Inconsistent.");
      if (stack is not empty) then (M, s, T_e) = pop();
      else done = true;
  return(⟨S, δ, λ_S⟩);
```