Algorithm Unification (Chang & Lee);
  input non-empty set of expressions W;
  output $\sigma = $ MGU(W) or failure;
begin

1. k := 0; $W_0 := $ W; $\sigma_0 := \{\ \}$;

2. **if** W_k is singleton **then return** σ_k
   else $D_k := $ Disagreement_Set(W_k);

3. **if** ($\exists\ V_k,\ t_k$ in D_k)[V_k does not occur in t_k]
   then begin
          $\sigma_{k+1} := \sigma_k \circ \{t_k/V_k\}$;
          $W_{k+1} := W_k\{t_k/V_k\}$;
          k := k + 1;
          goto 2
       end
     else return failure

end.