function TD-UPDATE(U, e, *percepts*, M, N) **returns** the utility table U

  if TERMINAL?[e] **then**
    U[STATE[e]] $\leftarrow$ RUNNING-AVERAGE(U[STATE[e]], REWARD[e], N[STATE[e]])
  else if *percepts* contains more than one element **then**
    e' $\leftarrow$ the penultimate element of *percepts*
    i, j $\leftarrow$ STATE[e'], STATE[e]
    U[i] $\leftarrow$ U[i] + $\alpha(N[i])$(REWARD[e'] + $U[j]$ - $U[i]$)