Algorithm 1 Diffusion Policy

procedure PERIOD ITERATION
    $period \leftarrow 0$
    $futurevalues[state] \leftarrow sum(state)$
    $currentvalues[state] \leftarrow 0$
top:
    for all *state*:
    for all *depletion*:
    order1=0, value1= revenue + futurevalue[futurestate];
    if $order2 = cvalue - sum(state) + depletion > 0$ **then**
        $value2 = revenue + futurevalue[0] + marginal \cdot sum(futurestate)$;
        $currentvalue[state] = max(value1, value2)$;
    $currentvalue[state] = max(currentvalue[state], value1)$;
loop:
    $period \leftarrow period + 1$;
    $futurevalues[state] \leftarrow currentvalues[state]$
    goto *top*.