
M-Compute-Opt(j)

 If $j = 0$ then

 Return 0

 Else if $M[j]$ is not empty then

 Return $M[j]$

 Else

 Define $M[j] = \max(v_j + \text{M-Compute-Opt}(p(j)), \text{M-Compute-Opt}(j - 1))$

 Return $M[j]$

 Endif
