

$$\textcircled{2} \quad KS[i, j] = \begin{cases} 0, & \text{if } i = j = 0 \\ \max(KS[i-1, j], KS[i, j-w[i]] + v[i]), & \text{else} \end{cases}$$

KS-0-1-DP (w, v, M) {

for $i = 0$ to $w.length$ // klenon array con 0's
 $KS[i] = 0$

temp = Make a copy of KS

for $i = 1$ to $w.length$ {

for $j = 1$ to M {

if $j \geq w[i]$

$KS[j] = \max = \{ \text{temp}[j], \text{temp}[j-w[i]] + v[i] \}$

// Verifica se conviene tomar el item

temp = Make a copy of KS

return (KS[w.length])

}

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
#2	0	0	0	1	1	1	1	1	7	7	7	8	8	8	8	8
#3	0	0	0	1	1	1	8	8	8	9	9	9	9	9	15	15
#4	0	0	4	4	4	5	8	8	12	12	12	13	13	13	15	15
#5	0	2	4	6	6	6	8	10	12	14	14	14	15	15	15	17
#6	0	2	4	6	6	6	8	10	12	14	14	14	15	15	15	17
#7	0	2	4	6	6	6	8	10	12	14	14	14	15	15	15	17