

BOTTOM-UP-CUT-ROD(p, n)

let $r[0..n]$ be a new array

$r[0] = 0$

for $j = 1$ **to** n

$q = -\infty$

for $i = 1$ **to** j

$q = \max(q, p[i] + r[j - i])$

$r[j] = q$

return $r[n]$