

CUT-ROD(p, n)

1 **if** $n == 0$

2 **return** 0

3 $q = -\infty$

4 **for** $i = 1$ **to** n

5 $q = \max \{q, p[i] + \text{CUT-ROD}(p, n - i)\}$

6 **return** q