

$$\textcircled{3} \quad \text{cut}(n) = \max_{1 \leq i \leq n} \{ \text{price}[i] + \text{cut}(n-i) \}$$

$\text{cut}(n) \{$   
 if  $n=0$   
 return 0

$p\_max = -\infty$

for  $i = 1$  to  $n$

$\text{max} = (p\_max, \text{price}[i] + \text{cut}(n-i))$

return  $p\_max$  }

length	0	1	2	3	4	5
price	0	1	5	8	9	10
cut(n)	0	1	5	8	10	13

Final answer = 13