Problem 2

(a) Each cut costs a constant value that is 'c' and if we cut 'n-1' time to make 'n' pieces of a single rod. Hence, we have to subtract 'c' from each piece cut

Therefore, the modified formula:

$$r_n = \max_{1 \le i \le n} (p_i + r_{n-i} - c)$$

(b)

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Bottom-up-cut-Rod (p, n)

let r[0...n] be a new Array
r[0] = 0
for j = 1 to n
    q = -∞
    for i = 1 to j
        q = max (q, p[i] + r[j-1] - c)
    r[j] = q
return r[n]
```