Bottom-up Solution: Bottom up Cut-Rod

i	1	2	3	4	5	6	7	8	9	10
	1	5	8	9	10	17	17	20	24	30

```
Bottom-up-Cut Rod (P,n)
let r be new array.
r[0] = 0
for j = 1 to n
    q = -∞
    for i = 1 to j
        q = max (q, P[i] + r[j-i])
        r[j] = q.
return r[n].
```

initial array is

0	0	0	0	0	0	0	0	0	0

0	1	0	0	0	0	0	0	0	0

0	1	-∞	0	0	0	0	0	0	0

0	1	5	0	0	0	0	0	0	0

0	1	5	-∞	0	0	0	0	0	0

0	1	5	8	0	0	0	0	0	0

0	1	5	8	-∞	0	0	0	0	0

0	1	5	8	10	0	0	0	0	0

0	1	5	8	10	-∞	0	0	0

0	1	5	8	10	13	0	0	0

0	1	5	8	10	13	-∞	0	0

0	1	5	8	10	13	17	0	0

0	1	5	8	10	13	17	-∞	0

0	1	5	8	10	13	17	18	0

0	1	5	8	10	13	17	18	-∞

0	1	5	8	10	13	18	22.