## Rod Cutting Problem <br> Assignment

Task 1

| length $i$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| price $p_{i}$ | 1 | 5 | 8 | 9 | 10 | 17 | 17 | 20 | 24 | 30 |

Given above table of rod process, compute all possible solutions for rod of length 6.

## Task 2

| length $i$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| price $p_{i}$ | 1 | 5 | 8 | 9 | 10 | 17 | 17 | 20 | 24 | 30 |

Dry run Dynamic programming solution on above example for rod length 6. Show all computations using recursive equation and values in array

## Task 3

- The dynamic programming algorithm computes the value of optimal solution (maximum revenue)
- Compute the optimal solution (where should we cut the rod to get optimal revenue) by modifying this algorithm

