# Lab: Dynamic Programming

This document defines the **in-class exercises** (lab) for the ["Algortihms" course @ Software University](https://softuni.bg/opencourses/algorithms).

## Rod Cutting

Find the best way to cut up a rod with a specified length. You are also given to prices of all possible lengths starting from 0.

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 0 1 5 8 9 10 17 17 20 24 30  4 | 10  2 2 |
| 0 1 5 8 9 10 17 17 20 24 30  8 | 22  2 6 |
| 0 1 5 8 9 10 17 17 20 24 30  10 | 30  10 |