**Assignment W8**

**Knapsacks**

| **Problem ID** | **Name** | **Point(s)** |
| --- | --- | --- |
| SPOJ - [KNAPSACK](http://www.spoj.com/problems/KNAPSACK/) | The Knapsack Problem | 2 |
| SPOJ - [BAT1](http://www.spoj.com/problems/BAT1/) | BATMAN1 | 3 |
| POJ - [1384](http://poj.org/problem?id=1384) | Piggy-Bank | 3 |

**DP on a Grid**

| **Problem ID** | **Name** | **Point(s)** |
| --- | --- | --- |
| SPOJ - [GRID](http://www.spoj.com/problems/GRID/) | Grid | 2 |
| SPOJ - [STAIRCSE](http://www.spoj.com/problems/STAIRCSE/) | Number of Paths | 3 |

**Interval DP**

| **Problem ID** | **Name** | **Point(s)** |
| --- | --- | --- |
| UVA - [10954](https://uva.onlinejudge.org/index.php?option=com_onlinejudge&Itemid=8&category=21&page=show_problem&problem=1895) | Add All | 2 |
| UVA - [348](https://uva.onlinejudge.org/index.php?option=com_onlinejudge&Itemid=8&page=show_problem&problem=284) | Optimal Array Multiplication Sequence | 3 |
| POJ - [1179](http://poj.org/problem?id=1179) | Polygon | 3 |
| POJ - [1738](http://poj.org/problem?id=1738) | An Old Stone Game | 6 |

**Tree DP**

| **Problem ID** | **Name** | **Point(s)** |
| --- | --- | --- |
| SPOJ - [CNTTREE](http://www.spoj.com/problems/CNTTREE/) | Trees Again | 3 |
| SPOJ - [THREECOL](http://www.spoj.com/problems/THREECOL/) | Three-coloring of Binary Trees | 3 |

**Set DP**

| **Problem ID** | **Name** | **Point(s)** |
| --- | --- | --- |
| SPOJ - [PESADA04](http://www.spoj.com/problems/PESADA04/) | Traveling Salesman Problem | 4 |
| UVA - [11472](https://uva.onlinejudge.org/index.php?option=com_onlinejudge&Itemid=8&category=437&page=show_problem&problem=2467) | Beautiful Numbers | 4 |