**Datasets:**

**P01** is a set of 10 weights and profits for a knapsack of capacity 165.

* [p01\_c.txt](https://people.sc.fsu.edu/~jburkardt/datasets/knapsack_01/p01_c.txt), the knapsack capacity.背包容量
* [p01\_w.txt](https://people.sc.fsu.edu/~jburkardt/datasets/knapsack_01/p01_w.txt), the weights of the objects.每个物体重量
* [p01\_p.txt](https://people.sc.fsu.edu/~jburkardt/datasets/knapsack_01/p01_p.txt), the profits of each object.每个物体的收益
* [p01\_s.txt](https://people.sc.fsu.edu/~jburkardt/datasets/knapsack_01/p01_s.txt), the optimal selection of weights.最优选择编码

**P02** is a set of 5 weights and profits for a knapsack of capacity 26.

* [p02\_c.txt](https://people.sc.fsu.edu/~jburkardt/datasets/knapsack_01/p02_c.txt), the knapsack capacity.
* [p02\_w.txt](https://people.sc.fsu.edu/~jburkardt/datasets/knapsack_01/p02_w.txt), the weights of the objects.
* [p02\_p.txt](https://people.sc.fsu.edu/~jburkardt/datasets/knapsack_01/p02_p.txt), the profits of each object.
* [p02\_s.txt](https://people.sc.fsu.edu/~jburkardt/datasets/knapsack_01/p02_s.txt), the optimal selection of weights.

**P03** is a set of 6 weights and profits for a knapsack of capacity 190.

* [p03\_c.txt](https://people.sc.fsu.edu/~jburkardt/datasets/knapsack_01/p03_c.txt), the knapsack capacity.
* [p03\_w.txt](https://people.sc.fsu.edu/~jburkardt/datasets/knapsack_01/p03_w.txt), the weights of the objects.
* [p03\_p.txt](https://people.sc.fsu.edu/~jburkardt/datasets/knapsack_01/p03_p.txt), the profits of each object.
* [p03\_s.txt](https://people.sc.fsu.edu/~jburkardt/datasets/knapsack_01/p03_s.txt), the optimal selection of weights.

**P04** is a set of 7 weights and profits for a knapsack of capacity 50.

* [p04\_c.txt](https://people.sc.fsu.edu/~jburkardt/datasets/knapsack_01/p04_c.txt), the knapsack capacity.
* [p04\_w.txt](https://people.sc.fsu.edu/~jburkardt/datasets/knapsack_01/p04_w.txt), the weights of the objects.
* [p04\_p.txt](https://people.sc.fsu.edu/~jburkardt/datasets/knapsack_01/p04_p.txt), the profits of each object.
* [p04\_s.txt](https://people.sc.fsu.edu/~jburkardt/datasets/knapsack_01/p04_s.txt), the optimal selection of weights.

**P05** is a set of 8 weights and profits for a knapsack of capacity 104.

* [p05\_c.txt](https://people.sc.fsu.edu/~jburkardt/datasets/knapsack_01/p05_c.txt), the knapsack capacity.
* [p05\_w.txt](https://people.sc.fsu.edu/~jburkardt/datasets/knapsack_01/p05_w.txt), the weights of the objects.
* [p05\_p.txt](https://people.sc.fsu.edu/~jburkardt/datasets/knapsack_01/p05_p.txt), the profits of each object.
* [p05\_s.txt](https://people.sc.fsu.edu/~jburkardt/datasets/knapsack_01/p05_s.txt), the optimal selection of weights.

**P06** is a set of 7 weights and profits for a knapsack of capacity 170. The knapsack can be packed to an optimal weight of 169.

* [p06\_c.txt](https://people.sc.fsu.edu/~jburkardt/datasets/knapsack_01/p06_c.txt), the knapsack capacity.
* [p06\_w.txt](https://people.sc.fsu.edu/~jburkardt/datasets/knapsack_01/p06_w.txt), the weights of the objects.
* [p06\_p.txt](https://people.sc.fsu.edu/~jburkardt/datasets/knapsack_01/p06_p.txt), the profits of each object.
* [p06\_s.txt](https://people.sc.fsu.edu/~jburkardt/datasets/knapsack_01/p06_s.txt), the optimal selection of weights.

**P07** is a set of 15 weights and profits for a knapsack of capacity 750, from Kreher and Stinson, with an optimal profit of 1458.

* [p07\_c.txt](https://people.sc.fsu.edu/~jburkardt/datasets/knapsack_01/p07_c.txt), the knapsack capacity.
* [p07\_w.txt](https://people.sc.fsu.edu/~jburkardt/datasets/knapsack_01/p07_w.txt), the weights of the objects.
* [p07\_p.txt](https://people.sc.fsu.edu/~jburkardt/datasets/knapsack_01/p07_p.txt), the profits of each object.
* [p07\_s.txt](https://people.sc.fsu.edu/~jburkardt/datasets/knapsack_01/p07_s.txt), the optimal selection of weights.

**P08** is a set of 24 weights and profits for a knapsack of capacity 6404180, from Kreher and Stinson, with an optimal profit of 13549094.

* [p08\_c.txt](https://people.sc.fsu.edu/~jburkardt/datasets/knapsack_01/p08_c.txt), the knapsack capacity.
* [p08\_w.txt](https://people.sc.fsu.edu/~jburkardt/datasets/knapsack_01/p08_w.txt), the weights of the objects.
* [p08\_p.txt](https://people.sc.fsu.edu/~jburkardt/datasets/knapsack_01/p08_p.txt), the profits of each object.
* [p08\_s.txt](https://people.sc.fsu.edu/~jburkardt/datasets/knapsack_01/p08_s.txt), the optimal selection of weights.

网址：https://people.sc.fsu.edu/~jburkardt/datasets/knapsack\_01/knapsack\_01.html