

**Overview**

Grain holding company receives multiple orders everyday to take grain. the company has limited number of hours in the day to process the numerous orders. company needs to make a selection of of orders that it can complete with a day and also optimises profit.

**Basic Solution**

Each order of grain has a time to complete and an expected revenue. Treaing the order's time as weight, the revenue as value and the order as a object to put into the knapsack, **the knapsack algorithm** can be used to select the optium schedule of orders.

<https://www.geeksforgeeks.org/0-1-knapsack-problem-dp-10/>

<https://www.guru99.com/knapsack-problem-dynamic-programming.html>

As the problem is simple the algorithm can be expected to test all possible selection options and return the best choice.