

- (1) Let $P(C, j)$ be the maximum profit that can be made by selecting a subset of the j objects with knapsack capacity of C .

$$P(C, 0) = P(0, j) = 0$$

$$P(C, j) = \max(P(C, j-1), p_j + P(C-w_j, j-1))$$

- (2)

$$C = 14$$

