Purging rule.

If S^{i+1} contains (P_j, W_j) and (P_k, W_k); these two pairs such as that $P_j \leq P_k$ and $W_j \geq W_k$ then (P_j, W_j) can be eliminated. This purging rule is also called as dominance rule. In short, remove the pair with less profit and more weight.

Method:

① Create set S^i by not including the i^{th} $(i+1)^{th}$ element.

② Create set S_1^i by including the $(i+1)^{th}$ element (i.e add P_{i+1}, W_{i+1} to each of the tuple).

③ Create set S^{i+1} by taking union of S^i and S_1^i.

④ Apply Purging rule to S^{i+1}.

⑤ repeat ① - ④ till you get S^n