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- > Given n objects and a knapsack
 - Capacity of knapsack W
 - Object i has weight w_i and value v_i
 - Fill up the knapsack so as to maximize value
- Perfect fit for our allocation problem if the gain by allocating a variable to scratchpad memory is a constant
 - Holds for ACET based allocation
 - Not true for WCET based allocation
- Knapsack problem can be easily solved by dynamic programming.

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