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In [1]:
# A naive recursive implementation
# of 0-1 Knapsack Problem
# Returns the maximum value that
# can be put in a knapsack of
# capacity W
def knapSack(W, wt, val, n):
        # Base Case
        if n == 0 or W == 0:
                return 0
        # If weight of the nth item is
        # more than Knapsack of capacity W,
        # then this item cannot be included
        # in the optimal solution
        if (wt[n-1] > W):
                return knapSack(W, wt, val, n-1)
        # return the maximum of two cases:
        # (1) nth item included
        # (2) not included
        else:
                return max(
                        val[n-1] + knapSack(
                                W-wt[n-1], wt, val, n-1),
                        knapSack(W, wt, val, n=1))
# end of function knapSack
#Driver Code
val = [60, 100, 120]
wt = [10, 20, 30]
W = 50
n = len(val)
print (knapSack(W, wt, val, n))
```