Problems
Dynamic Programming & Greedy Algs
1. On another planet, the denominations of money are:
Denom 1 4 7 13 28 52 91 365
optimal (a) Show that greed is not always optimal. (Maybe this is best done with a computer program)
b) give a recursive formula for the min # of coins to make change = K for any given non-neg K.
You may want to use a helper function.
eg Opt (K) is function we want
Opt (K, i) is recursive function we know how amount limit solution to those that use Denom [1i]

2. Not necessarily contiguous subsequences:
eg DAMN is a subg wence of
DYNAMICPROGRAMMING
a) A[1m] B[1n] arbitrary arrays.
Compute length of longest common subsequent
b) A[1m] B[1n]
Compute length of shortest common supersequence
of A and B.
c) X [1n] is bitonic if] i <i<n< td=""></i<n<>
such That X[1i] is increasing and
X[i.n] is decreasing.
Compute longest bitonic subsequence of
an input array A of integers.