Some notes on memoization and dynamic programming:
http://beastie.cs.ua.edu/cs201/dynamic.html

I'm having some trouble with #5 and #6 on Memoization. How do you know when you can remove a base case?

the notes on Memoization said the table is constructed in the same way as in dynamic programming, so in the possible ways to make change for example the base cases that generate out of bounds is very similar to some base cases in memoization examples.

For question #4 the indices seem to indicate even though that it would be x and y, however since y is incrementing to item.size-1 the range of the formal parameter the second axis is item.size. X and item.size doesn't seem to be an acceptable answer. Are we to assume that y is being subbed in for item.size?