week 10 Assignment 1. Design an algorism for a hungary person with diet resemblem and calones conscious 1. make a lost of all items on menu, call it mone" 2. Log through the list remove all items that connot est Justo diet restriction.

3. Sort the elements in the list by most calories to least calories. 4. make a new empt, but, call it order: 5. Try to add the first Hen in the menu" to "order" until reach the Calories limit. 6. By to add the second item in the "menu to "order" until reach the Calones limit. 7. repeat, until reach the last Hem in mena" 8. return "order" 2 Sold {65,10,85,28,33.74.67.56,31.62,45,24} by 1. Bubble Sorting 2. Selection Sorting 3. Insertion sorting Bubble sort (smallest to largest): {65,10,85,28,33.74,67,56,31,62,45,24} 65510 switch 2 { 10,65,85,28,33,74,67,56,31,62,45,24} re peut ... then {10,65,...,85} 2 the largest will be move to the last index of list 4 repeat Step 1,2, until the list bong sorted (need to repeat number of elements of times at most) 5 the list is sorted

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	Selection sorting Llargest to smallest):
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	Switch Second and
	Second and
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t	repeat until reach the end of the list
3	repeat with
6	The list is sorted
	the list is sortal
	\$45.74 CD.18.

Insertion Sorting (smallest to largest) 1 {65,10,85,28,33,74,67,56,31,62,45,24} 2 {65, 10, 85, 28, 33.74, 67, 56, 31, 62, 45, 24} make tirdelement a new list 3 {10,65,85,28,33,74,67,56,31,62,45,24} move index o from list 2 to list 1, and tind a sistable index of it from left to right (10 is smiller than all elements in list 1, so it goes to index o) 4 {10,65,85,28.33,74,67,56,31,62,45,24} (85 is torger than all elements in list 1. So it spesto index -1) 5 {10, 128, 65, 85, 23, 74, 67, 56, 31, 62, 45, 24} (10228265, so per 28 between 10 and 65) 6 repeat until size of list 2 become o 7 The list is sorted