1. I create an empty list first. In order to remove every letter at the end of the string, I use a ‘while’ to repeat the step of adding the current ’what the hell’ to the new list and delete the last letter and add again.
2. In order to add two vectors together, mathematically speaking, I need to add magnitude on x-axis as well as y-axis, etc. in this case, I create a loop to let a become every number between 0 and the number of elements. Then I add every first elements in both two lists and add every second elements in both two lists and so on.
3. This is a tricky one. In order to find the same slice, we basically need to try finding every slice to check whether it works or not. I consecutively use for loop to try all the possible slices and use ‘if’ to check if there is any two slices are same.
4. I create an empty list first. In order to sort them correctly, I pick the minimum element which will be removed later and put it into the first place of the list. As this element is already removed, what I need to do now is to find the minimum element currently and put it into the list at the second position.

Notes on class

System in general

Computational thinking(how to understand the computer work inside)

Programming(the most important part)

Problem solving, algorithms, programs

Problem identification-- problem analysis--plan development--plan evaluation(iteration 重复，迭代)

Calculate things

Another approach

Algorithms

An algorithm is a set procedure for solving a common problems(my definition), or…

An algorithm is "a process or set of rules to be followed in calculations or other problem-solving operations, especially by a computer "

Float chart

* Input/output
* Process
* Decision
* Start/end
* Arrows

Pseudocode

Pseudocode is a way of writing a sketch or a plan for a program without actual computer code.

Programs

A program is an algorithm or a procedure that has been turned into computer code.

Pseudocode and/or flow-charts will be intermediate steps between thinking of a problem.

Variable, array, element

Array is a combination of elements.

Linear research when there is no order.

Binary search

Work002.py:

End\_index= 7

Begin\_index= 5

Selection sort

Bobble sort

e.g. [10,8,1,50,25,26]

Go through all the elements and find the smallest

List = []

List.append(smallest)