

## CSCI561: Approach used to solve homework assignments.

- 1) Try to understand the question and design an algorithm using pen and paper (or a whiteboard, All I mean is don't jump right into writing code ).
- 2) Verify that your algorithm works on the sample cases. Once this is done try to design 3-4 trickier test cases and ensure your algorithm works for those too. If you have questions regarding the behaviour of the algorithm in some corner cases, write those down and get your queries clarified from the TA's.
- 3) Once you think your algorithm is ready, divide it into modules. A module that takes the input, a module that implements a certain behaviour etc.
- 4) Code your algorithm module by module and ensure that each module does exactly what it is expected to do (you can use print statements or test cases etc).
- 5) Once completed, think about whether your algorithm or code has scope for optimization.
- 6) Verify your code against all available testcases and submit it on Vocareum 😊