09/01/2016

Initial Project Requirements:

* Software receives input file
* implement algorithm named:
* “simple substitution, column transposition”
* the program should study the statistic of the file input
* it needs to manipulate some matrices
* file input could be binary or executables file, may need to obtain assembly code of file (there's software to do this)

Misc Log:

* Team started a shared google drive where we could all work on the various files together: <https://drive.google.com/drive/u/0/folders/0B6ovJygeWpc0bnBNMzdqTW4xWTg>
* Team agree to use Facebook messenger as the primary method of communication

Tasks:

What kind of statistical analysis do we need to perform on files: Time: 1

How to execute simple sub & column transposition

Brainstorm on what kind of files are going to be inputted

How to disassemble the file and directly analyze bits

Decide on the programming language the application will be written in

09/16/2016:

The project is being worked on collaboratively with Github (<https://github.com/bakatrinh/file_analyzer>)

10/27/2016:

* Jervin’s output should be be sorted. It should return the same array but with the uncommon characters replaced. It should also cut off the uncommon characters at a specified amount (not by half)
* We need to add a input field with default number 30. The number here will be used as the cutoff point for Jervin’s code
* Converting to matrix:
  + If the unique characters to analyze is 30 characters. Then the matrix should be 30 by 30
  + Each slot should have a number representing the number of occurrences of the two values. For example, in row AxB, scan the string for how many times AB shows up together in the string
  + Find the sum of the row and divide each slot by that sum, make a new matrix with the value of that sum. See picture example:

