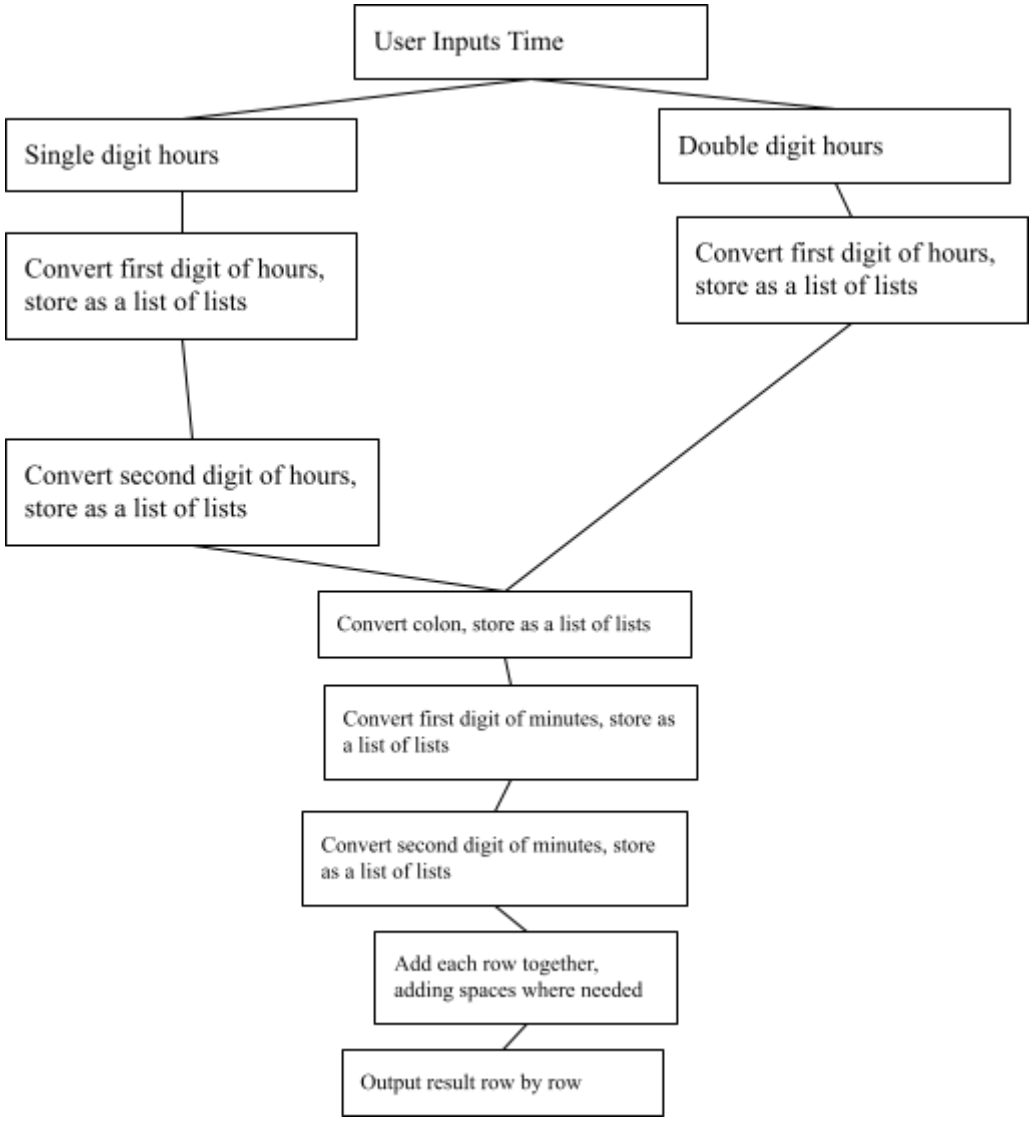
A. Hierarchies:



B. Variables:
   a. time: Store user inputted time as a string
   b. text: Store dictionary with the key being each digit (0-9) and the colon as strings and the values being a list of their corresponding ASCII outputs
   c. output: Store the output as a list

C. Test Cases:
   a. Single Digit Hours: 6:54
   b. Double Digit Hours: 12:34
   c. Leading Zero: 09:12
   d. Repeated Digits: 11:11
   e. Military Time (1): 17:42
   f. Military Time (2): 00:23
   g. No Colon: 123456

h. Invalid Numerical Input (But Valid Amount of Digits): 26:89
i. Invalid Numerical Input: 100:9999
j. “Gibberish” Input: asdf:jkl

G. Summary:

Since our variable names were all the same, all we had to do was delete the redundant variable definitions. There were, however, a few challenges with correctly nesting the if statements together for the input validation. We believe that this could have been made easier if we more clearly mapped out and specified each chunk of input validation.

Dividing coding like this has several advantages when working with larger tasks that require a lot of algorithmic steps. But other tasks that involve more conditionals may not be as well suited for this style. When there are several conditions to take into consideration, like we had for the input validation portion of our code, we had to nest our code into each other instead of simply adding one chunk to the end of another.