# **Pseudocode**

## **Filer TATM**

1. If Choose load file.
   * Prompt user to input file location and file name.
   * If file exist
     1. Read text in file
     2. Store text in String
     3. Decompress the String
     4. Return String as map
   * Else if file not exist
     1. Throw exception “File Does not exist, try again”
   * Else if file has invalid characters
     1. Throw exception “Invalid file format, <char> is unknown”
   * Else if file has Invalid brackets format. E.g. ][
     1. Throw exception “Invalid brackets input, closing bracket ‘’]” was set before open bracket ‘[’.
   * Else if file open brackets and closing brackets are not equal. E.g. [[[[[[]
     1. Throw exception “Number of opening brackets, are not equal to closing brackets”.
   * Else if several Theseus in the file.
     1. Throw exception “Please only one Theseus in map, please edit the map”.
   * Else if several Minotaur in the file.
     1. Throw exception “Please only one Minotaur in map, please edit the map”
   * Else if no Exit in map.
     1. Throw exception “Exit not found in map, please edit the map”.
2. If choose save map.
   * Prompt user to input file location and file name.
   * If file exist
     1. Compress the String.
     2. Write the String on the file.
   * Else if file not exist
     1. Throw exception “File Does not exist, try again”
   * Else if file has invalid characters
     1. Throw exception “Invalid file format, <char> is unknown”
   * Else if file has Invalid brackets format. E.g. ][
     1. Throw exception “Invalid brackets input, closing bracket ‘’]” was set before open bracket ‘[’.
   * Else if file open brackets and closing brackets are not equal. E.g. [[[[[[]
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