```
0.0.0
 1
 2
     CS241 Homework 11
 3
    Written by Chad Macbeth
 4
 5
     0.00
 6
 7
     Purpose: This file is a starting point to help you practice list comprehensions.
8
9
10
     def get_part1_list():
11
12
         Returns a list of the squares of the numbers [0-99], e.g., 0, 1, 4, 9, 16, 25 ...
13
         numbers = [i**2 for i in range(100)]
14
15
16
         return numbers
17
18
    def get_part2_list():
         0.000
19
20
         Returns a list of the the numbers [0-99] that are divisible by either 5 or 7
21
         numbers = [i for i in range(100) if i\%5 == 0 or i\%7 == 0]
22
23
24
         return numbers
25
26
    def get_part3_list():
27
28
         Filters a list of words to return only those that are at least 4 letters long and
         contain an 'e'
29
         old_words = ["tacos", "knowledge", "water", "on", "the", "I", "is", "hilarious",
30
         "tie", "coat", "white", "covenants", "phone", "rubric", "send", "restrictions"]
31
32
         new_words = [word for word in old_words if len(word) >= 4 and 'e' in word]
33
34
         return new_words
35
36
    def main():
         (0,0,0)
37
38
         This function calls the above functions and displays their result.
39
         print(get_part1_list())
40
         print(get_part2_list())
41
         print(get_part3_list())
42
43
44
45
     if __name__ == "__main__":
46
         main()
47
```