```
0.000
 1
 2
    CSE212
 3
     (c) BYU-Idaho
 4
    03-Prove - Problem 2
 5
    It is a violation of BYU-Idaho Honor Code to post or share this code with others or
 7
     to post it online. Storage into a personal and private repository (e.g. private
     GitHub repository, unshared Google Drive folder) is acceptable.
8
9
10
11
     def is_float(text):
12
         try:
13
             float(text)
14
             return True
15
         except:
16
             return False
17
18
    def mystery_2(text):
19
         stack = []
20
         for item in text.split(' '):
21
             if item == "+" or item == "-" or item == "*" or item == "/" :
22
                 if len(stack) < 2:</pre>
23
                     print("Invalid Case 1!")
24
                     return None
25
                 op2 = stack.pop()
26
                 op1 = stack.pop()
27
                 if item == "+":
28
                     res = op1 + op2
29
                 elif item == "-":
30
                     res = op1 - op2
                 elif item == "*":
31
32
                     res = op1 * op2
                 else:
33
34
                     if op2 == 0:
35
                         print("Invalid Case 2!")
36
                         return None
37
                     res = op1 / op2
38
                 stack.append(res)
39
             elif is_float(item):
40
                 stack.append(float(item))
41
             elif item == "":
42
                 pass
43
             else:
44
                 print("Invalid Case 3!")
45
                 return None
46
         if len(stack) != 1:
47
             print("Invalid Case 4!")
48
             return None
49
         return stack[0]
50
```

51