1. Write a function `findValidValue()` that returns a valid value entered by the user. The function should ask the user to enter a number until the user enters a value that is any of the following.
   a. Inclusively within the range of 5 and 17.
   b. Exactly equivalent to 100.
   c. Exclusively within the range of 20 and 25.

   ```python
def findValidValue():
    while True:
        value = eval(input("Enter a number: "))
        if value >= 5 and value <= 17:
            return value
        if value == 100:
            return value
        if value >= 20 and value <= 25:
            return value
```  

2. Write a program that computes the fuel efficiency of a multi-leg journey. The program will first prompt for the starting odometer reading and then get information about a series of legs. For each leg, the user enters the current odometer reading and the amount of gas used (separated by a space). The user signals the end of the trip with a blank line. The program should print out the miles per gallon achieved on each leg and the total MPG for the trip.

   ```python
last_odometer = eval(input("Odometer reading: "))
sum = 0
legs = 0
while True:
    in_ = input("Enter odometer reading and amount of gas (blank line signals end of trip)")
    if in_.strip() == "":
        break
    fields = in_.split(" ")
    odometer = eval(fields[0])
    gas = eval(fields[1])
    print(((last_odometer-odometer)/gas)
    sum = sum + (last_odometer-odometer)/gas
    legs = legs + 1
    last_odometer = odometer
print(sum/legs)
```
11. Using an indefinite loop (i.e., while), write a program that asks the user for a list of numbers that is not known at the start of the program. The user will enter a blank line when they are done entering numbers. Calculate the average of all of the numbers entered by the user. Also, during the execution of the while loop, keep track of the maximum and minimum value seen. You may NOT use the built-in Python max and min functions! 😊

20. Show me an implementation of one of the following sorting functions: insertion, bubble, or selection (your choice).
21. Describe the procedure behind bubble sort.

22. Describe the procedure behind selection sort.

23. Describe the procedure behind insertion sort.

24. Show me an implementation of linear search.
25. Show me an implementation of binary search.