1. What is operator precedence? Please include an example in your answer.

2. What is a list slice operator? Again, please include a specific example.

3. Consider the following Python statement:

   \[
   x = [ \text{'spam'}, 1.0, [2, 3], 4, 5.0]
   \]

   What is \(x[3][1]\)?
   (a) [2, 3]
   (b) 2
   (c) 2 spam
   (d) 4
   (e) It will return an error: ‘int’ object is not subscriptable

4. Draw an environment diagram for the following code:

   ```python
   def swapper(a, b):
       a[1:3] = [a[2], a[1]]
       a.pop(b)
       if len(a) > 2:
           swapper(a, b-1)
       return a[3-b]
   
   x = [2, 3, 5, 7]
   y = x[1]
   z = swapper(x, y)
   print(x, y, z)
   ```

5. Write a function that satisfies the following description:

   - Function name: avgSum
   - Argument(s): a list containing three numbers.
   - The function should print the sum of the numbers and return the average (mean) value of the three numbers.
6. Above is an environment diagram shown during execution of a Python program. Write a Python program that will create the environment diagram.