Note: the sample codes are given in Python.

1. Output for n = 20:

   Length: 0; Size in bytes: 72
   Length: 4; Size in bytes: 104
   Length: 8; Size in bytes: 136
   Length: 16; Size in bytes: 200

2. Add 5 different elements at different positions and verify that they are in order.

   ```
   dynamic_array = DynamicArray()
   dynamic_array.insert(0,1)
   dynamic_array.insert(0,2)
   dynamic_array.insert(1,3)
   dynamic_array.insert(3,5)
   dynamic_array.insert(2,4)
   print(dynamic_array)  # it prints [2,3,4,1,5]
   ```

3. Add 5 different elements into ArrayQueue and remove them checking that they are in the same order of insertion.

   ```
   queue = ArrayQueue()
   queue.remove()        # it prints "Queue is empty"
   queue.add(1)
   queue.add(2)
   queue.add(3)
   queue.remove()        # it returns 1
   queue.add(4)
   queue.remove()        # it returns 2
   queue.remove()        # it returns 3
   queue.add(5)
   queue.remove()        # it returns 4
   queue.remove()        # it returns 5
   queue.remove()        # it prints "Queue is empty"
   ```

4. Add 5 different elements in ArrayStack and remove them checking that they are in order.

   ```
   stack = ArrayStack()
   stack.add(0,1)
   stack.add(0,2)
   ```

```
stack.add(1,3)
stack.add(3,5)
stack.add(2,4)
print(stack.get(0))      # it prints 2
print(stack.get(1))      # it prints 3
print(stack.get(2))      # it prints 4
print(stack.get(3))      # it prints 1
print(stack.get(4))      # it prints 5
```

5. Same as 3.