Name : Ellison Povo 4055 roll no: 346

```
77      def _resize(self, cap):                 # we assume cap >= len(self)
78          """Resize to a new list of capacity >= len(self)."""
79          old = self._data                    # keep track of existing list
80          self._data = [None] * cap           # allocate list with new capacity
81          walk = self._front
82          for k in range(self._size):         # only consider existing elements
83              self._data[k] = old[walk]         # intentionally shift indices
84              w                                                  modulus
85          self.                                                  realigned
86          self.                                                  ta)
87
88      queue = ArrayQueue()
89      queue.enqueueEnd(1)
90      print(f"First Element: {queue._data[queue._front]}, Last Element: {queue._data[queue._back]}")
91      queue._data
92      queue.enqueueEnd(2)
93      print(f"First Element: {queue._data[queue._front]}, Last Element: {queue._data[queue._back]}")
94      queue._data
95      queue.dequeueStart()
96      print(f"First Element: {queue._data[queue._front]}, Last Element: {queue._data[queue._back]}")
97      queue.enqueueEnd(3)
98      print(f"First Element: {queue._data[queue._front]}, Last Element: {queue._data[queue._back]}")
99      queue.enqueueEnd(4)
100     print(f"First Element: {queue._data[queue._front]}, Last Element: {queue._data[queue._back]}")
101     queue.dequeueStart()
102     print(f"First Element: {queue._data[queue._front]}, Last Element: {queue._data[queue._back]}")
103     queue.enqueueStart(5)
104     print(f"First Element: {queue._data[queue._front]}, Last Element: {queue._data[queue._back]}")
105     queue.dequeueEnd()
106     print(f"First Element: {queue._data[queue._front]}, Last Element: {queue._data[queue._back]}")
107     queue.enqueueEnd(6)
108     print(f"First Element: {queue._data[queue._front]}, Last Element: {queue._data[queue._back]}")
109
```

Parameter self of practical_4.ArrayQueue._resize
self: ArrayQueue