For TABLE:

```
class Queue:
    def __init__(self):
   self.items = []
    def enqueue(self, item):
       self.items.append(item)
    def dequeue(self):
       if not self.is_empty():
          return self.items.pop(0)
    def is_empty(self):
       return len(self.items) == 0
    def length(self):
       return len(self.items)
    def first(self):
       if not self.is_empty():
            return self.items[0]
```

```
print('Answer for TABLE:')

Q = Queue()
Q.enqueue(5)
Q.enqueue(3)
print(Q.length())
print(Q.dequeue())
print(Q.is_empty())
print(Q.is_empty())
Q.enqueue(7)
Q.enqueue(7)
Q.enqueue(9)
print(Q.first())
Q.enqueue(4)
print(Q.length())
print(Q.dequeue())
```

OUTPUT

```
Answer for TABLE:
2
5
False
3
True
7
3
```

For 2nd Question:

What values are returned during the following sequence of queue operations, if executed on an initially empty queue? enqueue(5), enqueue(3), dequeue(), enqueue(2), enqueue(8), dequeue(), dequeue(), enqueue(9), enqueue(1), dequeue(), enqueue(6), dequeue(), dequeue(), enqueue(4), dequeue().

```
class Queue:
    new *
    def __init__(self):
        self.items = []
    9 usages new *
    def enqueue(self, item):
        self.items.append(item)
    8 usages new *
    def dequeue(self):
        if not self.is_empty():
            return self.items.pop(0)
    1 usage new *
    def is_empty(self):
        return len(self.items) == 0
    new *
    def length(self):
        return len(self.items)
```

```
print("Answer for 2nd Question:")
Q = Queue()
Q.enqueue(5)
Q.enqueue(3)
print(Q.dequeue())
Q.enqueue(2)
Q.enqueue(8)
print(Q.dequeue())
print(Q.dequeue())
Q.enqueue(9)
Q.enqueue(1)
print(Q.dequeue())
Q.enqueue(7)
Q.enqueue(6)
print(Q.dequeue())
print(Q.dequeue())
Q.enqueue(4)
print(Q.dequeue())
print(Q.dequeue())
```

OUTPUT:

```
Answer for 2nd Question:
5
3
2
8
9
1
7
```