45

46

}

```
Queue3.java
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 47
 48
        * Standard methods removed to reduce clutter...
 49
 50
 51
       /*
 52
        * Kernel methods
 53
        */
 54
 55
       @Override
 56
       public final void enqueue(T x) {
 57
            assert x != null : "Violation of: x is not null";
 58
 59
            entries.add(entries.length()-1, x);
 60
       }
 61
 62
 63
       @Override
       public final T dequeue() {
 64
            assert this.length() > 0 : "Violation of: this /= <>";
 65
 66
 67
 68
            return entries.remove(0);
 69
       }
 70
 71
       @Override
        public final int length() {
 72
 73
 74
 75
            return entries.length();
       }
 76
 77
 78
       /**
 79
        * Reports the front of {@code this}.
 80
        * @return the front entry of {@code this}
 81
        * @aliases reference returned by {@code front}
 82
        * @requires this /= <>
 83
        * @ensures <front> is prefix of this
 84
 85
        */
 86
        public T front() {
 87
            assert this.length() > 0 : "Violation of: this /= <>";
 88
 89
```

```
Queue3.java
                                 Thursday, January 20, 2022, 3:03 PM
 90
            return entries.entry(0);
 91
 92
       }
 93
 94
 95
 96
       @Override
 97
       public void clear() {
 98
           // TODO Auto-generated method stub
99
       }
100
101
102
       @Override
103
       public Queue<T> newInstance() {
104
            // TODO Auto-generated method stub
105
            return null;
       }
106
107
108
       @Override
       public void transferFrom(Queue<T> arg0) {
109
110
           // TODO Auto-generated method stub
111
112
       }
113
114
       @Override
115
       public Iterator<T> iterator() {
116
            // TODO Auto-generated method stub
117
            return null;
118
       }
119
120
        * Iterator removed to reduce clutter...
121
122
        */
123
124 }
```