

```
1 class Queue {
2   constructor() {
3     this.queue = [];
4   }
5
6   enqueue(value) {
7     this.queue.push(value);
8   }
9
10  dequeue() {
11    return this.queue.shift();
12  }
13
14  peek() {
15    return this.queue[0];
16  }
17
18  length() {
19    return this.queue.length;
20  }
21
22  print() {
23    console.log(this.queue.join(' '));
24  }
25 }
26
27 const queue = new Queue();
28 queue.enqueue(1);
29 queue.enqueue(2);
30 queue.enqueue(3);
31 queue.print(); // => 1 2 3
32 console.log('length is 3:', queue.length()); // => 3
33 console.log('peek is 1:', queue.peek()); // => 3
34 console.log('dequeue is 1:', queue.dequeue()); // => 1
35 queue.print(); // => 2 3
36 console.log('dequeue is 2:', queue.dequeue()); // => 2
37 console.log('length is 1:', queue.length()); // => 1
38 console.log('dequeue is 3:', queue.dequeue()); // => 3
39 queue.print(); // => ''
40 console.log('peek is undefined:', queue.peek()); // => undefined
41 console.log('dequeue is undefined:', queue.dequeue()); // => undefined
42
```