

Name : _____ Date : _____

A+ Queues Worksheet 2 – Priority Queues

Show the output of each block of code below.

1. What is the output?

```
Queue<Integer> a = new PriorityQueue<Integer>();  
a.add(45);  
a.add(76);  
a.add(34);  
out.println(a);  
out.println(a.remove());
```

2. What is the output?

```
Queue<Integer> b = new PriorityQueue<Integer>();  
b.add(45);  
b.remove();  
b.add(34);  
out.println(b);  
out.println(b.remove());
```

3. What is the output?

```
Queue<Integer> c = new PriorityQueue<Integer>();  
c.add(45);  
out.println(c.peek());  
c.add(34);  
out.println(c.remove());  
c.add(67);  
out.println(c);
```

4. What is the output?

```
Queue<Double> d = new PriorityQueue<Double>();  
d.add(9.2);  
d.add(1.1);  
d.add(7.3);  
d.add(5.6);  
out.println(d.remove());
```

5. What is the output?

```
Queue<String> e = new PriorityQueue<String>();  
e.add("ab");  
e.add("78");  
e.add("ET");  
out.println(e.remove());  
e.add("one");  
out.println(e.remove());  
out.println(e.size());  
out.println(e.remove());
```

6. What is the output?

```
Queue<String> f = new PriorityQueue<String>();  
f.add("it");  
f.add("go");  
f.add("we");  
f.add("by");  
while(!f.isEmpty()) {  
    System.out.println(f.remove());  
}
```