Review Questions 11

Topic: Set and Map ADTs

1. Explain whether the expression is true or false:

   Feeling = {I, want, to, pass, this, exam, but, I, do, not, know, if, I, can, pass, it}

2. What happens when you try to `add()` an element to a set that already contains it?

3. What happens when you try to `remove()` an element from a set when it is not in the set?

4. A map is also called

    (a) a table.
    (b) an associative array.
    (c) a dictionary.
    (d) all above

5. An entry is a pair of _____.

6. The cardinality of a map is the number of entries, which equals to the number of _____ in the map.

7. True or false:

    A value may have more than one associated key.

8. What are the advantages and disadvantages of using a `HashMap` compared to a `TreeMap`?