635019 2
Suppose q is an instance of a queue that can store Strings, and I execute
the following statements starting with q empty:

```
1. q.enqueue("Sweden");
2. q.enqueue("is");
3. q.enqueue("my");
4. String w = q.dequeue();
5. String x = q.peek();
6. q.enqueue("neighbor");
7. String y = q.dequeue();
8. String z = q.dequeue();
```

What is the value of z after executing these expressions in order?

    a. "Sweden"
    b. "is"
    *c. "my"
    d. "neighbor"

    e. None of the above

    f. "
    g. "
    h. "
    i. "
    j. "

    General Feedback:

    If we consider the contents of the queue after each expression (listing contents
from head to tail), we have

1. ["Sweden"]

2. ["Sweden" "is"]

3. ["Sweden" "is" "my"]

4. ["is" "my"] (and w gets set to "Sweden")

5. ["is" "my"] (and x gets set to "is")

6. ["is" "my" "neighbor"]

7. ["my" "neighbor"] (and y gets set to "is")

8. ["neighbor"] (and z gets set to "my")

634151 2
Which of the following parts of a process' memory is the largest?

    a. The code area

    b. The globals area

    *c. The heap

d. The stack

        e.
        f. "
        g. "
        h. "
        i. "

        General Feedback:

        Heap is the largest.

634145 2
Prim's Algorithm is used to solve what problem?

        a. Finding the lowest parent of a heap

        *b. Minimum spanning tree

        c. Shortest path in a graph from a source

        d. Sorting integers

        e.
        f. "
        g. "
        h. "
        i. "

        General Feedback:

        Prim's is used for MST.