

## Unit 3 Progress Check: FRQ

Name \_\_\_\_\_

1. SHOW ALL YOUR WORK. REMEMBER THAT PROGRAM SEGMENTS ARE TO BE WRITTEN IN JAVA.

- Assume that the classes listed in the Java Quick Reference have been imported where appropriate.
- Unless otherwise noted in the question, assume that parameters in method calls are not `null` and that methods are called only when their preconditions are satisfied.
- In writing solutions for each question, you may use any of the accessible methods that are listed in classes defined in that question. Writing significant amounts of code that can be replaced by a call to one of these methods will not receive full credit.

Assume that the following variables have been properly declared and initialized.

- a `boolean` variable named `rsvp`
- an `int` variable named `selection`, where 1 represents "beef", 2 represents "chicken", 3 represents "pasta", and all other values represent "fish"
- a `String` variable named `option1`
- a `String` variable named `option2`

(a) Write a code segment that prints "attending" if `rsvp` is `true` and prints "not attending" otherwise.

Write the code segment below.



Please respond on separate paper, following directions from your teacher.

(b) Write a code segment that prints the food item associated with `selection`. For example, if `selection` is 3, the code segment should print "pasta".

Write the code segment below. Your code segment should meet all specifications and conform to the example.



Please respond on separate paper, following directions from your teacher.



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(c) Write a code segment that will store a dinner selection in `option1` based on the values of `rsvp` and `selection`. The intended behavior of the code segment is described below.

If `rsvp` is `true`, the code segment should store in `option1` a string indicating the person's attendance and food choice. For example, if `rsvp` is `true` and `selection` is 1, the following string should be stored in `option1`.

```
"Thanks for attending. You will be served beef."
```

If `rsvp` is `false`, the following string should be stored in `option1`, regardless of the value of `selection`.

```
"Sorry you can't make it."
```

Write the code segment below. Your code segment should meet all specifications and conform to the examples.



Please respond on separate paper, following directions from your teacher.

(d) Write a code segment that will print `true` if the strings `option1` and `option2` contain the same values and will print `false` otherwise.

Write the code segment below.



Please respond on separate paper, following directions from your teacher.