Name: Solutions
Date: 10/04/18

Instructions:

- For each question, select the answer that you think is correct. Please completely fill in the bubble for your answer.

Problem 1. What is the binary (base 2) number representation for 19?
A. 111
B. 10001
C. 1010000
D. 10011
E. FA891B

Problem 2. What is the correct way to print out the message "Hello World"?
A. stdio.writeln('Hello' + 'World')
B. stdio.writeln('Hello World')
C. stdio.out Hello World
D. h = 'Hello World'
E. stdio.writeln(Hello World)

Problem 3. What is the value and type of the following expression?

\[(3 - 4) * 3.2 \leq 3.3\]
A. False - boolean
B. -3.2 - float
C. -3.2 - int
D. 3.3 - float
E. True - boolean
Problem 4. Consider the following program mystery.py:

```
# mystery.py
import stdio
import sys
a = sys.argv
```

What does the program write when it is run as follows?

```
$ python mystery.py Alice Bob Carol Dan Eve
```

(Hint: remember that sys.argv is a list for command line arguments. We access the first element with sys.argv[1], the second with sys.argv[2], and so on.)

A. Hi 4, 2, and 1!
B. Hi Alice, Bob, and Carol!
C. Hi Dan, Bob, and Alice!
D. Hi sys.argv!
E. Hi , , and !

Problem 5. What is the value and type of the following expression?

```
33 // 30
```

(Hint: remember the difference between the / and // operators.)

A. 3 - boolean
B. -3 - float
C. 1 - int
D. 63.0 - float
E. '0' - string