Name: Solutions
Date: 10/25/18

Instructions:

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

Problem 1. What does the following code fragment write?

```c
x = 5
y = 2
z = 6
stdio.writeln('x = %d, y = %d, z = %d\n', x, y, z)
```

A. x = %d, y = %d, z = %d
B. x = x, y = y, z = z
C. x = 5, y = 2, z = 6
D. x = 6, y = 5, z = 2
E. x=5,y=2,z=6

![Option selection](A O B O C C D O E O)

Problem 2. We want to read an int from standard input and set its value to a variable x. What is the correct way to do this? Assume we have already imported the required modules.

A. x = sys.argv[0]
B. x = int()
C. x = stdio.readFloat()
D. x = stdio.readInt()

![Option selection](A O B O C O D D)

Problem 3. What does the following code fragment write?

```python
a = ['it', 'was', 'the', 'best', 'of', 'times', 'it',
     'was', 'the', 'worst', 'of', 'times']
x = 0
for v in a:
    x += 1
stdio.writeln(x)
```
Problem 4. What does the following code fragment write?

```python
a = [1, 2, 3, 4, 5]
b = a
b[2] = 0
stdio.writeln(sum(a))
```

(Hint: remember that b = a merely copies the memory address of the list.)

A. 15
B. b
C. 13
D. 12

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

```python
set('panama') & set('canal')
```

(Hint: remember what the & operator does for sets. It is analogous to the same operation in set theory.)

A. {'a', 'n', 'p', 'a'}
B. {'p', 'a', 'c', 'n', 'l', 'm'}
C. {'a', 'n'}
D. set()
E. {'panamacanal'}