

CSE 160 Section 1 Problems

1. For each expression, write the resultant value and the data type of the value (for instance, Integer)

- a. 42
- b. $42 + 91 / 3.0$
- c. $42 / 5 + 2.0$
- d. True
- e. $42 < 45$
- f. `not 42 < 91`
- g. "May the force be with you."
- h. `float(3) < 9`

2. Write the output to the following program:

```
for value in [1, 3, 5]:  
    print(value + value ** 2)
```

3. Write a for loop that will print the result of multiplying 3 by the numbers 8 through 12. The example solution is two lines long. Your output should read:

```
24  
27  
30  
33  
36
```

4. For each list write an equivalent call using `range()`. For each call using `range()` give the corresponding list.

- a. [0, 1, 2, 3]
- b. [-4, -3, -2, -1, 0]
- c. `list(range(0, 10, 2))`
- d. `list(range(2, 11, 3))`
- e. [25, 20, 15, 10, 5, 0]
- f. `list(range(1000, -100, -100))`

CSE 160 Section 1 Solutions

1. Solutions appear below:

- a. 42 integer
- b. 72.333 float
- c. 10.4 float
- d. True bool (or truth value)
- e. True bool (or truth value)
- f. False bool (or truth value)
- g. "May the force be with you." string
- h. True bool (or truth value)

2. The output appears below:

```
2
12
30
```

3. Possible solution appears below:

```
for value in [8, 9, 10, 11, 12]:
    print(3 * value)
```

or

```
for value in range(24, 37, 3):
    print(value)
```

4. Possible solutions appear below:

- a. `list(range(4))` or `list(range(0, 4, 1))`
- b. `list(range(-4, 1))` or `list(range(-4, 1, 1))`
- c. `[0, 2, 4, 6, 8]`
- d. `[2, 5, 8]`
- e. `list(range(25, -1, -5))`
- f. `[1000, 900, 800, 700, 600, 500, 400, 300, 200, 100, 0]`

Name (first and last):

Email:

1) I have Anaconda and VSCode installed on my computer: YES NO

2) Please rate how comfortable you are with these topics so far.

1 = not very confident about this

3 = moderately confident about this

5 = very confident about this

_____ Expressions

_____ Variables

_____ print statement

_____ range

_____ command line vs. python interpreter

3) Any thoughts/concerns about this class?

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