

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

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

3. Write the output to the following program:

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

4. 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
```

5. Write the output to the following program:

```
for i in [1, 2, 3]:
    for j in [1, 2, 3]:
        print i + j
```

6. Write the output to the following program:

```
sum = 0
for i in [1, 2, 3]:
    for j in [1, 2, 3]:
        sum = sum + i
print sum
```