CSC108H Winter 2023 Worksheet: Function Definitions

1. Function Definitions

(a) Function double takes a number and returns twice its value. Finish the examples by writing the returned value. Then, write a return statement to complete the function definition:

```
def double(num: float) -> float:
    """Return twice the value of num.
    >>> double(7.0)
    >>> double(5.7)
```

(b) Function our maximum takes two numbers and returns the larger of the two. Finish the examples by writing the returned value. Then, complete the function definition:

```
def our_maximum(num1: float, num2: float) -> float:
    """Return the larger of num1 and num2.

>>> our_maximum(1.5, 2.5)

>>> our_maximum(4.0, 3.7)
```

(c) Function max_of_min takes four values, num1, num2, value1, and value2, determines the minimum of num1 and num2, the minimum of value1 and value2, and returns the maximum of those minimums.

What value does max_of_min(4.0, 3.7, 6.0, 3.5) produce?

```
What value does max_of_min(1.0, 1.7, 4.5, 3.0) produce? _____
```

Use your responses above to fill in two examples in the docstring. Then, complete the function definition. If you like, you can use several statements.

def max_of_min(num1: float, num2: float, value1: float, value2: float) -> float:
 """Return the maximum of the minimums of the pairs num1 and num2,
 and value1 and value2.

>>>

>>>

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