

CSC108H Winter 2023 Worksheet: No if required

Each of the following functions is correctly implemented, but is more complex than it needs to be. Each function body can be replaced with a single return statement. You can use comparison operators `<`, `>`, `<=`, and so on, as well as boolean operators `and`, `or`, and `not`.

```
1. def can_vote(age: int) -> bool:
    """Return True if and only if age is legal voting age of at least 18 years.

    >>> can_vote(16)
    False
    >>> can_vote(21)
    True
    """

    if age < 18:
        return False
    else:
        return True
```

Complete the new single-line function body in the box below:

return

```
2. def is_teenager(age: int) -> bool:
    """Return True if and only if age is a teenager between 13 and 18 inclusive.

    >>> is_teenager(4)
    False
    >>> is_teenager(16)
    True
    >>> is_teenager(19)
    False
    """

    if age < 13:
        return False
    else:
        if age > 18:
            return False
        else:
            return True
```

For which age range will this function return True?

Complete the new single-line function body in the box below:

return