

**Lab 7: Implement a MaxHeap class**

**Implement a class `MaxHeap`** (a max heap) that can contain any items that can be compared using the standard comparison operators (`<`, `>`, `<=`, `>=`, `==`)

The following starter files are available on GitHub. Complete the implementations and ensure that your implementations are committed and pushed to GitHub.

- **`heap.py`**
- **`heap_tests.py`**

Clarifications and corrections:

- The `peek` and `dequeue` methods should return `None` if the heap is empty
- the `heap_sort_ascending` method should sort the list that is passed in as a parameter and does not need to return anything. The test case given to you (`test_11`) incorrectly tests that the return value is a sorted list and instead should check if the list passed in is now sorted.
- The `build_heap` method does not need to return anything. You can remove the test inside of `test_04` that checks the return value.