

**University of Pittsburgh**  
**Department of Electrical and Computer Engineering**  
**ECE 0302: Data Structures and Algorithms**

**In-Class Exercise 4: Limited Size Bag Class**

Instructions: Implement the limited-size Bag ADT. Don't use `std::vector`, and include a custom copy constructor and custom copy assignment operator.

1. Download the starter code
2. In `limited_size_bag.hpp` define the class `LimitedSizeBag` conforming to the `BagADT` interface.
3. In `limited_size_bag_test.cpp` implement a few tests for the methods using `Catch`.
4. In `limited_size_bag.hpp` implement the `LimitedSizeBag` methods.
5. Build your code locally as you work.

Hint: This should be almost identical to your implementation of ICE 2. The only addition here is to implement the copy constructor and assignment.

Submission: submit a zipped folder to Canvas under ICE 4 – Limited\_Size\_Bag.