

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

In-Class Exercise 2: Generic (Abstract) Bag Class

Instructions: create an interface for the generic Bag ADT and adapt our implementation of Bag to use this interface definition.

1. Download the starter code.
2. In the file `abstract_bag.hpp` define a C++ **interface** for our Bag ADT. Have a look at the `bag_simple.hpp` to know the functions needed to be defined in the abstract bag class. More specifically, define an abstract class called 'AbstractBag' in `abstract_bag.hpp`. This abstract class should have **only pure virtual methods** corresponding to methods of 'Bag' class.
3. Adapt the Bag implementation using in the files `bag_simple.hpp` and `bag_simple.cpp` to use this interface in `abstract_bag.hpp`. (The bag class should be derived from the abstract bag class).
4. Build your code locally as you work and make sure that it passes the test cases found in `bag_test.cpp`

Submission: submit a zipped folder to Canvas.