Priority Queue Lab

Write the code as specified and answer the questions. You may write your answers in comments in the top of the main method.

1. Create a priority queue of User objects from the 2 previous labs.
   1. You can use your linked list implementation as a starting point
   2. You can implement it using a different approach (including using built-in data structures other than the ones noted below)
      1. You may **not** use a third-party library implementation of Priority Queue
      2. You may **not** use the built-in PriorityQueue<TValue, TPriority> that is built into .NET 6
   3. The queue should order the Users based on the randomValue field
2. Use the test data and file reader from the previous two labs to create a collection of User objects.
3. Place each User in the priority queue
4. Dequeue and print all the Users (name and randomValue)
5. Insert code to count the operations required for all the enqueues. Create a method to calculate the average operations per item enqueued. How does the priority queues performance differ from a standard queue?
6. If you used your linked list implementation as a starting point, what modifications were required?
7. If you didn’t use your linked list as a starting point, what modifications are required to make a linked list behave like a queue?