

Problem

During the process of constructing my program, I had met two main problems. First, the enqueue function. It's about the moving of the current pointer and the moving of tail and head pointer. Second, the dequeue function. It's about the use of temp pointer and whether the head->previous and tail should be NULL or not.

Process

First, I write the Node.cpp and define the constructor Node and set the elem=0 and prev=NULL and next to NULL. Second, I construct the IQueue .cpp, I write the enqueue function, dequeue function, headelem function, isempty function ,getsize function, gethead function, printheadtotail function. Third, I write the main function, I use three for loop to run the program. Also, the use rand and srand to create random number for trials, enqueues, input value and dequeues. Finally, delete all the memory space that used in IQueue.cpp.