Description

QueueList is a library implementing a generic, dynamic queue (linked list version) for the Arduino.

It is created to help adding FIFO (First In - First Out) Abstract Data Structure to a program for any use.

QueueList library is part of the "[Data Structures & Algorithms](https://playground.arduino.cc/Main/GeneralCodeLibrary#DSA_code)" libraries.

Installation

Download here: [QueueList.zip](https://playground.arduino.cc/uploads/Code/QueueList.zip)

Put the "QueueList" directory in "libraries" directory.

In the Arduino IDE, create a new sketch and select from the menubar "Sketch->Import Library->QueueList".

Once the library is imported, an "#include <QueueList.h>" line will appear at the top of your Sketch.

Creation

Replace "T" with the data type you want to use.

QueueList <T> queue;

Create instance (object) of a QueueList class.

Methods

Replace "T" with the data type you want to use.

void push (const T item)

Push an item with data type "T" to the queue.

T pop ()

Pop an item with data type "T" from the queue.

T peek ()

Get an item with data type "T" from the queue.

bool isEmpty ()

Check if the queue is empty.

int count ()

Get the number of items in the queue.

void setPrinter (Print & printer)

Sets the printer of the queue.

