C++ Queue & Priority Queue Cheatsheet

# Queue

## Declaration

queue<int>queue1;

## Push

queue1.push(22);

queue1.push(29);

queue1.push(56);

## Front element

cout << "The front element is " << queue1.front()<<endl;

## Back element

cout << "The number of elements: " << stack1.size();

## Pop

queue1.pop();

## Size

cout << "Number of elements are " << queue1.size();

# Priority Queue

## Declaration

* + 1. priority\_queue<int>queue2; // max heap
    2. priority\_queue<int, vector<int>, greater<int>> queue3; // min heap;

## Push

queue2.push(22);

queue2.push(29);

queue2.push(56);

queue3.push(22);

queue3.push(29);

queue3.push(56);

## Top element

cout << "The top element is " << queue2.top() << endl;

cout << "The top element is " << queue3.top() << endl;

## Pop

Queue2.pop();

Queue3,.pop();

## Size

cout << "Number of elements are " << queue2.size() << endl;

cout << "Number of elements are " << queue3.size() << endl;