

RAST: highly distributed DB proejct.

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1. Micro-Architecture (classes and methods)

1.1. Lock-free queue

LockFreeQueue < *TElement* > is obviously an implementation of lock-free queue. It contains the following functions:

```
LockFreeQueue<TElement> {  
    void Push(TElement new_element);  
    // Exceptions:  
    //     Strong exception safety: in case of failure  
    //     the element is not pushed to the queue,  
    //     there are no visible side effects  
  
    std::unique_ptr<TElement> Pop() noexcept;  
    // Return value:  
    //     nullptr unique_ptr if the queue was empty,  
    //     unique_ptr pointing on TElement in case of successfull pop  
};
```
