优先级队列

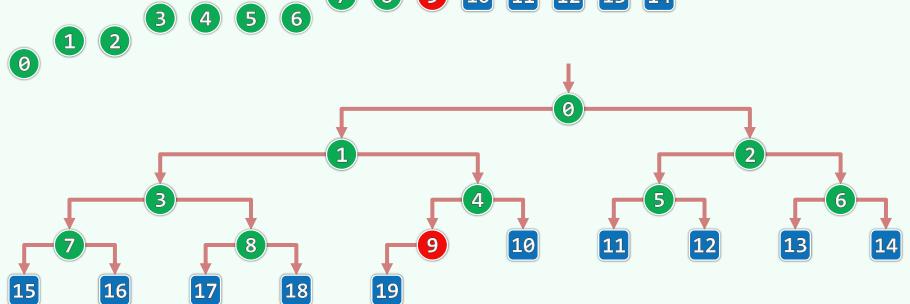
完全二叉堆: 结构

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逊问曰: "何人将乱石作堆?如何乱石堆中有杀气冲起?"

结构性:逻辑元素、物理节点依层次遍历次序彼此对应



$PQ_ComplHeap = PQ + Vector$

```
template <typename T> struct PQ_ComplHeap : public PQ<T>, public Vector<T> {
    PQ_ComplHeap( T* A, Rank n ) { copyFrom( A, 0, n ); heapify( _elem, n ); }
    void insert( T ); T getMax(); T delMax();
 };
❖ template <typename T> Rank percolateDown( T* A, Rank n, Rank i ); //下滤
❖ template <typename T> Rank percolateUp( T* A, Rank i ); //上滤
❖ template <typename T> void heapify( T* A, Rank n); //Floyd建堆算法
```

堆序性

```
template <typename T> T PQ_ComplHeap<T>::getMax() { return _elem[0]; }
```

