vector

- constructor
  - vector<T> v1
  - vector<T> v1(v2.begin(), v2.end())
  - vector<T> v1(n, val)
  - vector<T> v1(v2)
- iterator
  - begin()
  - end()
  - rbegin()
  - rend()
  - cbegin(), cend(), crbegin(), crend()
- capacity
  - size()
  - empty()
  - resize(n)
- access
  - [] / at(idx)
  - front()
  - back()
- modify
  - push_back(v)
  - pop_back()
  - erase(ptr)
  - erase(v, v+k)
  - insert(ptr, val)
  - insert(ptr, size, val)
  - insert(ptr, v, v+k)
  - clear()

queue / pq

- empty()
- size()
- push(v)
- pop()
- front() (only FIFO queue)
- back() (only for FIFO queue)
- top() (only for PQ - ‘last’ element of array)

set / map

- begin, end, rbegin, rend
- empty
- erase(v)
- erase(ptr)
- erase(p, p+k)

- size
- insert
- find
- lower_bound(v)
- upper_bound(v)

note:

- unordered_map/unordered_set don’t have lower_bound/upper_bound methods
- umap/uset need hash and equal_to functions
- set/map don’t need hashes, they use comparison functions

ostringstream

- oss << v;
- oss.str()