

CS241 TUTORIAL

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1. STL

1.1. **containers.**

- (1) `pair<T,U>`: group two items
- (2) `vector<T>`: array like sequence of elements of type T
- (3) `list<T>`: linear sequence of elements of type T
- (4) `map<T,U>`: dictionary with keys of type T and values of type U
- (5) `set<T>`: collection of elements of type T with fast membership lookup

1.2. **Algorithms.**

- (1) `find`: get iterator to element
- (2) `count`: count number of elements that compose
- (3) `copy`: copy elements of range to another range
- (4) `for_each`: apply function to each element
- (5) `transform`: like map
- (6) `accumulate`: adds all values in parameters plus an init