

Algorithms

accumulate

- `accumulate( start, end, initial value)`
 - call + operator for each element
 - ex
 - `sum = accumulate( n.begin(), n.end(), 0 )`
 - `sent = accumulate(str.begin(), str.end(), string(""))`

accumulate with custom function

- `accumulate( start, end, init, myfunc );`
- 은 다음과 같다
 `s = init;`
 `for( p: v )`
 `s = myfunc( s, *p );`
 `return s;`
- Default myfunc: `s = s + *p;`
- EX: `print vector<int> v`
 - `accumulate( v.begin(), v.end(), string(""), mf )`
 - `string mf( string a, int b)`
 - `return a + ", " + to_string(b);`

replace

- `replace( start, end, old value, new value )`
- EX
 - `replace( n.begin(), n.end(), 10, 100 )`
 - `replace( w.begin(), w.end(), string("one"), string("two") )`

fill

- `fill( numbers.begin(), numbers.begin()+3, 0 );`

sort

- `sort( words.begin(), words.end() );`

copy

- `copy( src's start, src's end, dest's start);`
- EX
- `copy( s.begin(), s.begin()+10, d.begin() );`
- NOTE:
 - All range is [start, end)
 - including start, excluding end

generate

- `generate(start, end, genfunc)`
- Call `genfunc` to fill the container with data