**CPP - STL**

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important C++ STL functions

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1. Containers

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bool is\_inContainer = container.find(x) != container.end()

2. Algorithms

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std::sort( container.begin(),container.end(), <Comparator>)

- no need comparatoer for basic types.

- need comparator for custom classes, structs, you can provide operator() for comparator.

std::reverse( container.begin(), container.end())

3. Strings

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substring :

substring(start,end);

substring(stat) // lenght is end

append :

+ operator

4. Streams

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p = "2000"

int i = stoi(p)

Good Online Tutorials

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http://www.dreamincode.net/forums/topic/95826-stringstream-tutorial/

http://www.devarticles.com/c/a/Cplusplus/Using-Stringstreams-in-Cplusplus/

http://www.cprogramming.com/tutorial/c++-iostreams.html

stringstream

read input as a file.

convert to and from int,double,char etc.. to string.

istringstream

string myStream = "45";

istringstream buffer(myString);

int value;

buffer >> value; // value = 45

ostringstream

ss.str();

converting base

stringstream ss;

ss << "f";

ss << std::hex;

int f ;

ss >> f;

converting int to string

int Number = 123; // number to be converted to a string string Result; // string which will contain the result ostringstream convert; // stream used for the conversion convert << Number; // insert the textual representation of 'Number' in the characters in the stream Result = convert.str(); // set 'Result' to the contents of the stream