Conversion between char arrays, strings, and other types

Text may be stored in a character array or string, and we may want to convert to another type.

Eg: "400" to 400

.- or go the other way ...

Eg 400 to "400"

... and we may want to split a string into different parts

Eg "Heat over to 400° and bake for 15 minutes"
"900 Fifth Street, Nanamo, BC V9R 555"

Lostalib>

atoi/f ascii to int int
$$i = atoi("106")$$
; // i now 106 float $f = atof("3007.95")$ // f now 3007.95 Works for literals and char array s

Astring > has stoi and stof
String
$$S = "409"$$
;
int $i = stoi(s)$;
String $S2 = "39.5"$;
Float $f = stof(s2)$;

```
# include <sstream>
# include < string>
# include < iostream>
using namespace std;
string text = "900 Fifth Street"; create stream
istring stream (text). // variable from
int oc;
Stream >> x; //x is now 900
// Can use getline, just as with ein
istring stream Stream 2 ("900 Fifth Street \nNanaimo");
string line 1;
getline (stream 2, line 1, '\n'); // Reads
                                      11 Into line 1.
```

... still using < sstream>

Can use ostringstream to write text into a stream, then use the stream's .str() to get it into a string

Converting string to char

char text [b] = "abcde"; // for n

11 so 6 chars

String S = text;

To get content of string as an array we need .c_str()

stropy (text, s.c.str());

Il gets untent of S as a null-terminated

I char array - that's the type that stropy

// needs.