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#include: <vector>, <utility>, <algorithm>, <iostream>, <fstream>, <algorithm>, <sstream>

#include "file.h"

String are array of char with ('\0') at end

.c_str()-return const char

std::vector <type>

std::pair<type, type>

int main(int argc, char* argv[])

std::string name(len, thing)

std::ifstream in_str(); (.good() return true if good)

std::ofstream out_str();

out_str.close();

stoi(string to int);

.substr(index,len);

.push_back(stuff)

&something - reference

-you want to const the get functions.

-pointers hold memory addresses, *means follow the pointer, no alias unless pass by reference

if (p == q) or **if (p != q)** are legal ways to compare pointers

-arrays point to a block of memory ++p moves to next location in the array.

for (p=a; p<a+n; ++p) loop through array with pointers.

std::sort (.begin(), .end(), function to return true or false)

std::sort(rooms.begin(), rooms.end());

std::vector<std::string>::iterator unique_rooms = std::unique(rooms.begin(), rooms.end());

rooms.resize(std::distance(rooms.begin(), unique_rooms));

-use **new** to put it on the heap, use **delete** to remove from heap.

```
while (!in_str.eof()) {
    in_str >> my_variable;
    // do something with my_variable
}
```

