Lave get turned in during test scores

Lest scores

Lest scores

Lest scores

Lest scores

Intro to CS II

Intro to C Programming
Selection event
Wed 20th - Herce hours

## Assignment #4

- Get into groups of 4-5.
- How will you fill the vector of vectors?
- How will you know if you have visited all cells in the floor plan?

```
B
                                                                     _ _
                              access.engr.orst.edu - PuTTY
  1 #include <vector>
 2 #include <iostream>
  4 using namespace std;
  5
  6 int main() {
       vector <vector<char> > v;
  8
       vector <char> temp;
 10
       temp.push back('d');
 11
       temp.push back('d');
 12
       temp.push back('d');
 13
       temp.push back('d');
 14
       v.push back (temp);
 15
       temp.clear();
16
 17
       temp.push back('d');
 18
       temp.push back('d');
 19
       temp.push back('d');
 20
       temp.push back('d');
 21
       v.push back(temp);
 22
       temp.clear();
 23
 24
       cout << "rows: " << v.size() << endl;</pre>
       cout << "cols: " << v[0].size() << endl;</pre>
 25
 26
"vector.cpp" 28L, 500C
                                                       25,4
                                                                       Top
```

How will you know floor is cleaned? butlenvir member tack
that keeps tack
of how many cleaned original
xm cells to come if no obj. on floor

## C/C++ Differences Biggest??? not 00 / no classes 111

- Semantics
- Only one meaning of & (address of) No Pass by Syntax
- Syntax
  - Libraries (.h)
  - Location of variable declaration (-std=c89 -pedantic)
    - Input/Output (scanf()/printf())
    - Structs
    - <u>Dynamic Memory (malloc()/free())</u>
    - File I/O (file pointer)

## C vs. C++ Libraries, variables, and input

```
access.engr.orst.edu - PuTTY
  1 #include <iostream>
 2 using namespace std;
  4 int main() {
  5
       int num;
  6
       cin >> num;
       cout << "the " << num << " num is: " << num << endl;</pre>
10
       return 0;
11 }
"c++.cpp" 11L, 157C written
                                               11,1
                                                              All
  1 #include <stdio.h>
  3 int main() {
       int num;
       scanf("%d", &num);
       printf("the %d num is: %d\n", num, num);
10
       return 0;
11 }
 c.c" 12L, 154C
                                               9,0-1
                                                              All
```