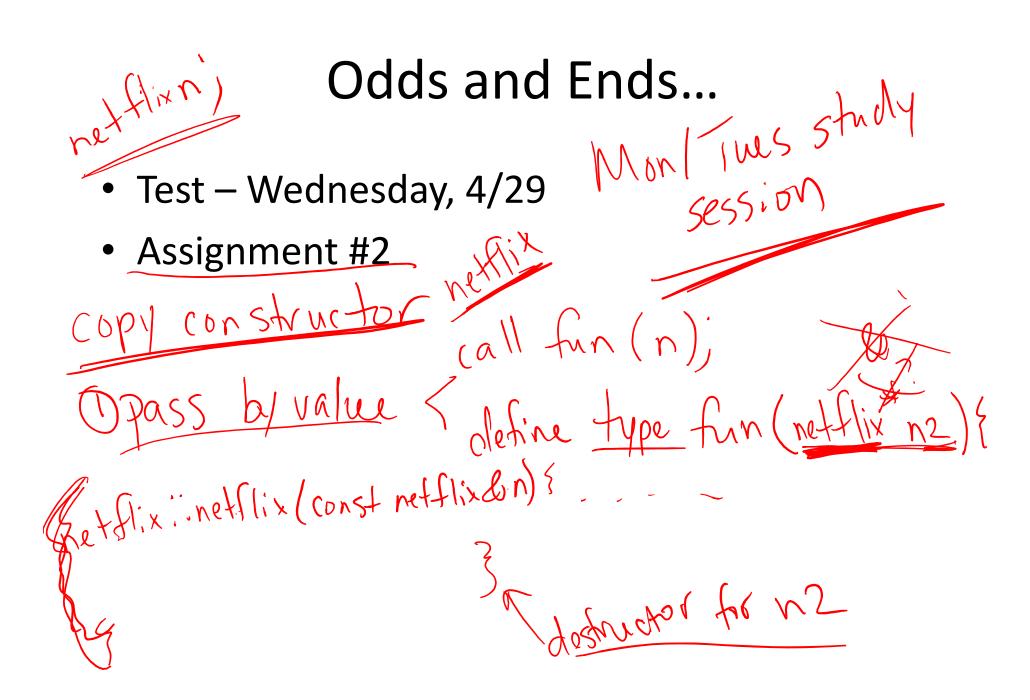
Design 1st - 60P software engineerins architecture Tences of CS 162 CS 162 Intro to CS II Has a" vs. "Is a" Relationship



turn object from function netflix n=fun(); copy constructor -return new netflix) 3) netflix n; netflix n2=n; Copy constructor

Top overload

Revisit "has a" Relationship

- What is the "has a" relationship?
- How can we make a paragraph class that has strings?

paragraph.h

```
4
                      access.engr.orst.edu - PuTTY
   #include "./mystring.h"
   class paragraph {
      public:
  6
          paragraph();
  8
          string get_sentence() const;
          void set sentence(const string &);
   private:
10
          string sentence; //have a relationship
11
12 };
13
14 #endif
"paragraph.h" 14L, 247C
                                         13,0-1
                                                        A11
```

paragraph.cpp

```
4
                       access.engr.orst.edu - PuTTY
   #include "./paragraph.h"
   #include <iostream>
  3
    /*paragraph::paragraph() : sentence("hello"){
  5
  7 paragraph::paragraph() {
       sentence=string("hello");
  8
  9
 10
 11 string paragraph::get sentence() const {
 12
       return sentence;
 13 }
 14
 15 //We'll write set sentence later
<aph.cpp" 15L, 251C written</pre>
                                         15,32
                                                         All
```

main.cpp

```
4
                      access.engr.orst.edu - PuTTY
  4 #include <stdio.h>
  5 #include "./paragraph.h"
  6 using std::cout;
  7 using std::endl;
  8 using std::fstream;
  9 using std::ios;
10
11 int main() {
12
    paragraph p;
       cout << p.get sentence().at(1) << endl;</pre>
13
14
15 string str2("hello");
16    //string str=str2; //supposed to call copy constr
    uct to make new
17
   string str;
       str=str2; //since both created, then call = ove
18
    rload
                                        11,1
18 fewer lines
                                                       12%
```