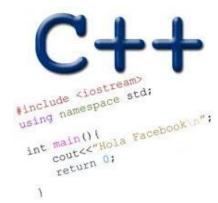
DEFAULT PARAMETERS, OPERATOR OVERLOADING

Problem Solving with Computers-II

https://ucsb-cs24-sp17.github.io/

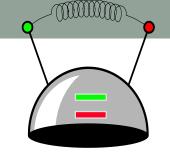


Read the syllabus. Know what's required. Know how to get help.

CLICKERS OUT – FREQUENCY AB

Attention all female students

- Women in Computer Science (WICS) is holding a special coffee hour themed "HOW TO SUCCEED IN CS?"
- When? Friday (04/21) at 1:30pm
- Where? HFH 1132
- Please plan to attend! RSVP via this form: https://goo.gl/forms/yPIMyFUN7mWx0vCs1

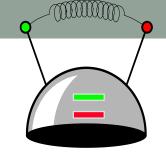


Review: Constructor

```
Which constructor is called when the following statement is executed?
thinking cap student;
class thinking_cap
public:
  thinking_cap();
                                                     //A
   thinking_cap(char new_green[], char new_red[]); //B
   void slots(char new_green[], char new_red[]);
   void push_green() const;
   void push_red( ) const;
private:
                                   //C: Default copy constructor
   char green_string[50];
                                   //D: Default assignment operator
   char red_string[50];
                                   //E: None of the above
```

Default values

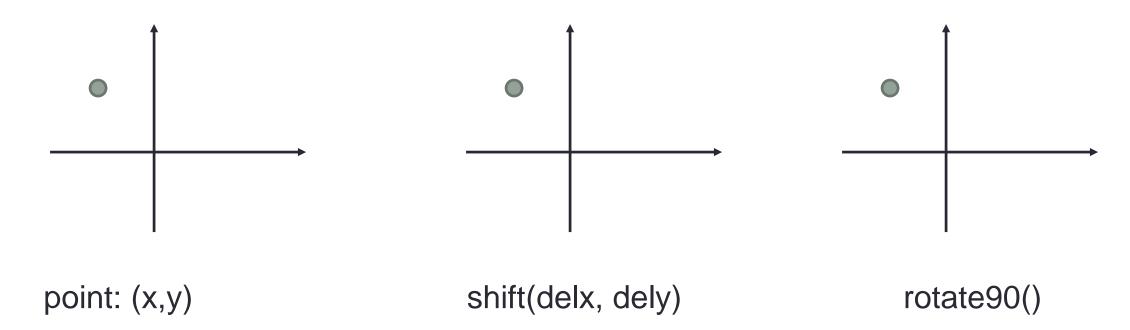
```
int sum(int a=10, int b=20){
       return a+b;
int main(){
       int x = 40, y = 50;
       cout<<sum(x,y)<<endl;
       cout<<sum(x)<<endl;</pre>
       cout<<sum()<<endl;</pre>
```



Specify default constructor using default arguments

```
Which constructor is called when the following statement is executed?
thinking cap student;
class thinking_cap
public:
   thinking_cap(char new_green[]="Hello", char new_red[]="there"); //A
   void slots(char new_green[], char new_red[]);
   void push_green() const;
  void push_red( ) const;
private:
   char green_string[50];
                                   //B: Default copy constructor
   char red_string[50];
                                   //C: Default assignment operator
                                   //D: None of the above
```

The point class (Chapter 2, section 2.4)



Let's look at the implementation of the point class

See code from lecture

- Focus on the process: test driven
- Point class definition and implementation
- Operator overloading

Next time

Wrap up chapter 2, gdb