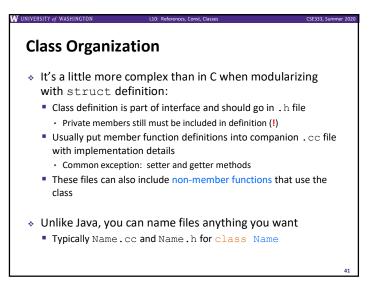


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When to Use References? A stylistic choice, not mandated by the C++ language ❖ Google C++ style guide suggests: Input parameters: • Either use values (for primitive types like int or small structs/objects) Avoid making unnecessary copies Or use const references (for complex struct/object instances) • Output parameters: To make sure we don't change in function Use const pointers

also allows const & non-const arguements - Unchangeable pointers referencing changeable data Ordering: · List input parameters first, then output parameters last void CalcArea (const int& width, const int& height, int\* const area) { \*area = width \* height; styleguide.cc

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```
Poll Everywhere
                                           pollev.com/cse33320su
 What will happen when we try to compile and run?
                                                        poll3.cc
                        class Integer {
 A. Output "1"
                         Integer(int x) { x = x; }
 B. Output "351"
                         int GetValue() const { return x_; }
 C. Compiler error
                         void SetValue(int x) const { x = x; }
                        private:
    about violating
                         int x ;
    const-ness of i
                        };
    (in main)
                        int main(int argc, char** argv) {
                         const Integer i(1);
 D. Compiler error
                         i.SetValue(i.GetValue() + 350);
                         std::cout << i.GetValue() << std::endl;
    about one of the
    member functions
                         return EXIT SUCCESS;
 E. We're lost...
```