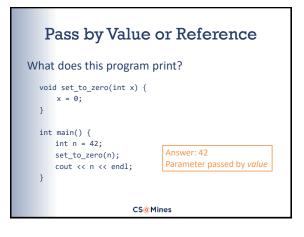
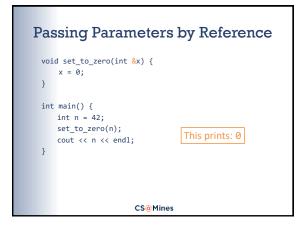
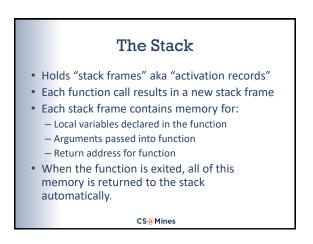
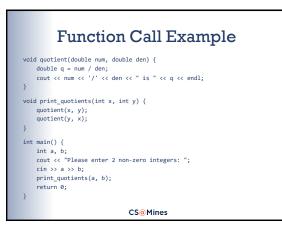


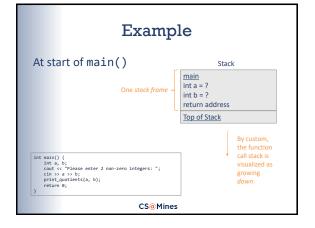
| Default Parameters | | | |
|--|----|--|--|
| Alternative when one overload is just a specialized version of another: | | | |
| <pre>// prints n times, or just once if n omitted void print_n_times(string s, int n = 1) { for (int j = 0; j < n; j++) { cout << s << endl; } }</pre> | | | |
| With the above, we can do: print_n_times("Hello", 10); // prints Hello 10 times | | | |
| or print_n_times("Goodbye"); // prints Goodbye once | | | |
| Rules: Cannot omit earlier parameters, supply later ones Cannot overload if parameter list is interpretable as call to function with default params omitted, e.g., cannot also define void print_n_times(string s) { _ } | | | |
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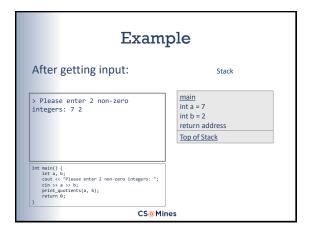


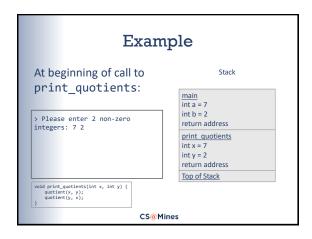


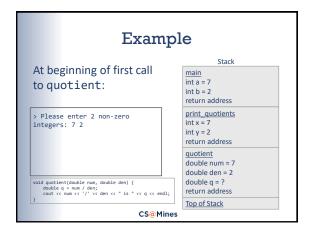


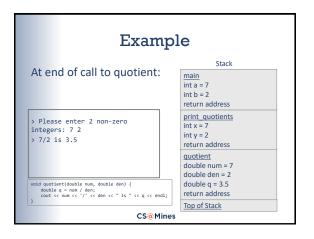


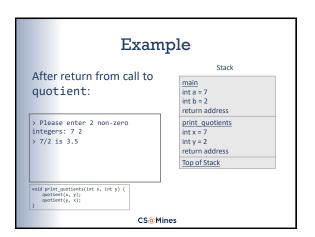




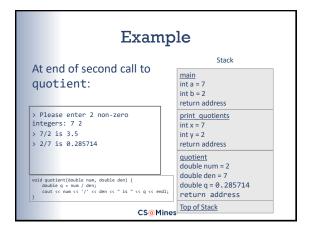


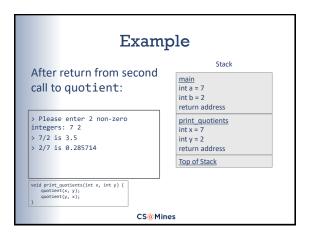


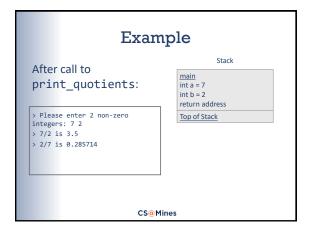


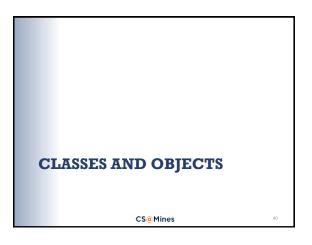


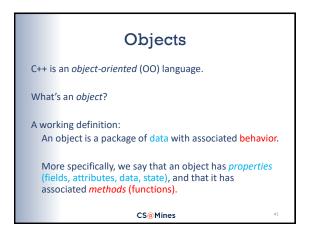
| Example | | | | | |
|--|--|--|--|--|--|
| At beginning of second call to quotient: | Stack main int a = 7 int b = 2 | | | | |
| <pre>> Please enter 2 non-zero integers: 7 2 > 7/2 is 3.5</pre> | return address print quotients int x = 7 int y = 2 return address | | | | |
| <pre>void quotient(double num, double den) { double q = num / den; Cout << num < / ' << d den << * is * << q << e }</pre> | quotient double num = 2 double den = 7 double q = ? return address | | | | |
| CS@N | Top of Stack | | | | |

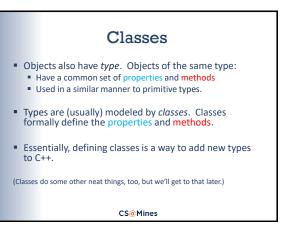


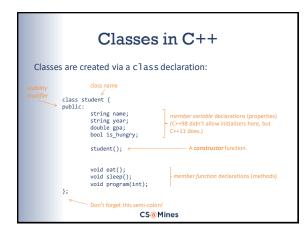


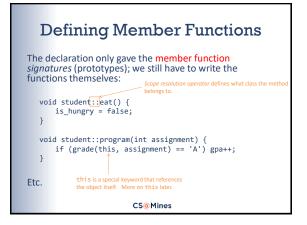


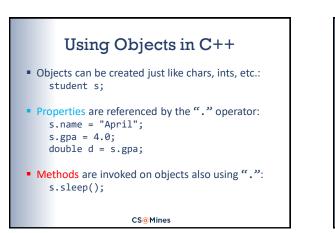


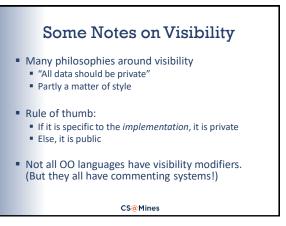


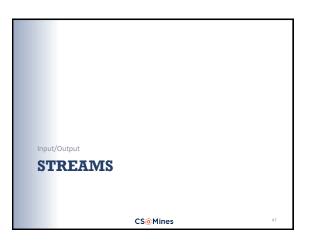


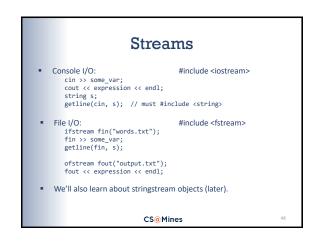


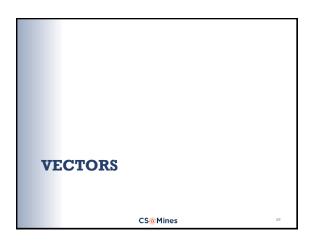


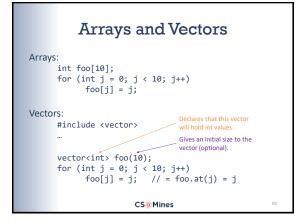


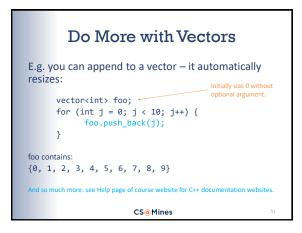


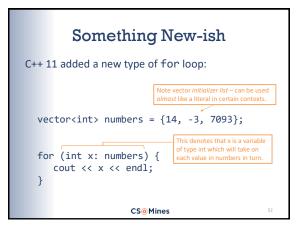


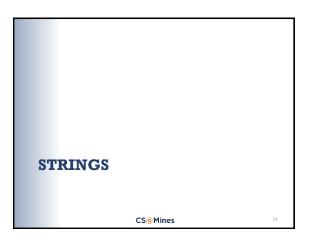


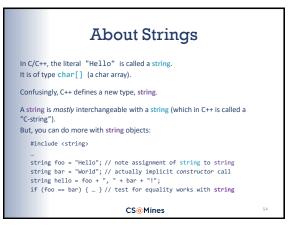












More About Strings

Know/learn the string interface!

- See Help page of course website for C++ documentation websites
- Some string *methods* you should know:

| length | operator[] | |
|--------|------------|-----------|
| size | operator+ | |
| find | operator+= | |
| substr | relational | operators |
| | | |

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