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Week 15
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Week 15 Lecture 15 Notes
Functions
Functions are a form of non-contiguous code reuse. They are declared in classes or outside of the
main function, and they can have a number of return types and parameters.
Ex:
void function() {cout << "I'm a function!";}</pre>
Function overloading
Function overloading is the use of multiple functions with the same name. These functions are
differentiated from each other by their parameters. The function that is called will depend on the
arguments that the call passes.
Ex:
Void func(int x) {}
Void func(float x) {}
```

Operator overloading

func(3.14) //Calls second function, since 3.14 is a float

func(1) //Calls first function since 1 is an int

Int main() {

};

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Similar to function overloading, you can use the operator keyword to define what an operator
will do for a specific function. The only operators that cannot be overloaded are: ::, .*, ., ?:
Ex:
ClassName operator opSymbol(args) {body}
MyClass operator - (MyClass m1, int x) $\{x = m1 - 5;\}$