

# Namespace, Scope, and Keywords

Presented By:

#### Namespace

• Some functions share their name with other functions

Compiler has no way of differentiating them

• Namespace specifies which function you actually want to run

# Example of Namespace

```
namespace name{
     void funct1(){
         //code
     }
}
name::funct1()
```

#### Namespace cont'd

• To specify a function every time you use it:

(put namespace here)::(put funct here)

• To specify a namespace for a file, use using:

using namespace (put namespace here);

• To specify a single function for a whole file:

using (put namespace of funct here)::(put funct here);

#### How you will use namespace

• The only thing you will likely use namespace for:

using namespace std;

This tells the compiler that you are using the standard library

• This prevents you from having to type std:: before every command

#### Scope

- The scope of a variable is the areas in which it can be called.
- Set of brackets that directly contain it and all brackets inside that set:

```
int y = 1;
while(y==1){
    int z = y +4;
    y = y*z/5;
}
```

• In the above example, the scope of the variable z is the while loop.

# Example of Scope

• Would this return an error?

# Keywords

• C++ has some words to which it has assigned properties.

• These are called keywords and help with a variety of tasks.

• You should NEVER use a keyword as a variable or function name.

# Examples of Keywords

break

case

const

default

do

else

enum

for

include

if

• int (as well as double, float,...)

return

static

switch

void

while

cout

continue