

Computer Science & Engineering 150A

Problem Solving Using Computers – Laboratory

Lecture 11 - Functions

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(Adapted from Derrick Stolee, Lin Liu & Shuai Xie)

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Announcement: CodeLab assignment

CSCE150A

Assignment

Debugging

Function

- The 6th CodeLab assignment

"CodeLab Assignment-6"

Due: 23:59 Apr 13

Code::Blocks instruction

- Create a new project
 - New project
 - Console Application → Go
 - Select "c" not "c++"
 - Project title and saving folder.
 - GNU GCC Compiler
- Copy your desired source code into main.c

Code::Blocks instruction

- Save: Ctrl + S
- Build: Ctrl + F9
- Build and run: F9
- Run to Cursor F4
- Toggle breakpoint: F5
- Next line: F7
- Step into: Ctrl + F7
- Step out: Shift + Ctrl + F7
- Open "Watches Window" to view value of variables.

```
#include <stdio.h>
```

```
void CountSum(int x, int y); \\Prototype
```

```
int main(void)
```

```
{
```

```
int a=9,b=6;
```

```
CountSum(a,b); \\Call the function
```

```
return 0;
```

```
}
```

```
void CountSum(int x, int y) \\Definition
```

```
{
```

```
int sum;
```

```
sum = x + y;
```

```
printf("The sum is %d",sum);
```

```
}
```

Function with Output Parameters

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```
#include <stdio.h>
```

```
void CountSum(int x, int y, int *zp); \\Prototype
```

```
int main(void)
```

```
{
```

```
int a=9,b=6,c;
```

```
CountSum(a,b,&c); \\Call the function
```

```
printf("The sum is %d",c);
```

```
return 0;
```

```
}
```

```
void CountSum(int x, int y, int *zp) \\Definition
```

```
{
```

```
*zp = x + y;
```

```
}
```