
CS480

Control Flow!

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Simple If

```
main()  
{  
    int x, y;  
  
    if( x > y )  
    {  
        output(x, y);  
    }  
}
```

If

```
main()  
{  
    int x, y;  
  
    if( x == 0 && (y = x + 1) )  
    {  
        output(x, y);  
    }  
}
```

If/Else

```
main()
{
    int x = 9;
    int y = 8;

    if( x > y )
    {
        output( x, y);
    }
    else
    {
        output(y, x);
    }
}
```

FOR!

```
main()  
{  
    int i = 0;  
    int max = 100;  
  
    for ( i = 0 ; i < max ; i++)  
    {  
        output(i );  
    }  
}
```

Nesting!

```
main()
{
    int i = 0;
    int max = 100;

    for ( i = 0 ; i < max ; i++)
    {
        if( i % 3 == 1 || i % 4 == 0 )
        {
            output( i * i );
        }
        else
        {
            output( i + i );
        }
    }
}
```