```
// Section 1: Math with ints and floats
int i:
uint u;
float f;
i = 2 + 2;
                        NSLog(@"Example 1A: %d",i);
                        NSLog(@"Example 1B: %d",i);
i = 2.0 + 2.0;
i = 2.4 + 2.5;
                        NSLog(@"Example 1C: %d",i);
i = 5 / 6;
                        NSLog(@"Example 1D: %d",i);
f = 5 / 6;
                        NSLog(@"Example 1E: %f",f);
i = 5.0 / 6.0;
                        NSLog(@"Example 1F: %d",i);
f = 5.0 / 6.0;
                        NSLog(@"Example 1G: %f",f);
i = 5.0 / 6;
                        NSLog(@"Example 1H: %d",i);
f = 5.0 / 6;
                        NSLog(@"Example 1I: %f",f);
f = 3.0 + 5 / 6;
                        NSLog(@"Example 1J: %f",f);
i = 5;
u = i - 6;
                        NSLog(@"Example 1K: %u",u);
```

## // Precedent and Parentheses i = 3 + 4 \* 5 + 6;NSLog(@"Example 2A: %d",i); i = (3 + 4 \* 5 + 6);NSLog(@"Example 2B: %d",i); i = 3 + (4 \* 5 + 6);NSLog(@"Example 2C: %d",i); i = 3 + (4 \* 5) + 6;NSLog(@"Example 2D: %d",i); i = (3 + 4) \* (5 + 6); NSLog(@"Example 2E: %d",i); // Tricky if statements i = 5: if (i = 0){NSLog(@"Example 3A: It's true!");} else {NSLog(@"Example 3A: It's false!");} if (i = 5){NSLog(@"Example 3B: It's true!");} else {NSLog(@"Example 3B: It's false!");} if (i = 7){NSLog(@"Example 3C: It's true!");}

{NSLog(@"Example 3C: It's false!");}

else

```
// True and False
    if (((nil == NULL) && (nil == 0)) && ((nil == FALSE) && (nil == NO)))
        {NSLog(@"Example 4A: They're all the same!");}
    else
        {NSLog(@"Example 4A: They're not all the same!");}
    if (((TRUE == YES) && (TRUE == 1)) && (true == TRUE))
        {NSLog(@"Example 4B: They're all the same!");}
    else
        {NSLog(@"Example 4B: They're not all the same!");}
    if (1)
        {NSLog(@"Example 4C: It's true!");}
    else
        {NSLog(@"Example 4C: It's false!");}
    if (0)
        {NSLog(@"Example 4D: It's true!");}
    else
        {NSLog(@"Example 4D: It's false!");}
    if (-1)
        {NSLog(@"Example 4E: It's true!");}
    else
        {NSLog(@"Example 4E: It's false!");}
    if (57)
        {NSLog(@"Example 4F: It's true!");}
    else
        {NSLog(@"Example 4F: It's false!");}
    if (57 == TRUE)
        {NSLog(@"Example 4G: It's true!");}
    else
        {NSLog(@"Example 4G: It's false!");}
```

```
// Common object tests
// The question is, "Does it print anything for 5A & 5B?"
NSObject *myObject = nil;
if (!myObject)
{
   NSLog(@"Example 5A: myObject is false");
    myObject = [NSObject new];
if (myObject)
   NSLog(@"Example 5B: myObject is true");
}
[myObject release];
// Conditional Operator
i = (0 ? 1 : 2); NSLog(@"Example 6A: %d",i);
// Another tricky if statement puzzle
if (10)
    {NSLog(@"Example 7A: It's true!");}
else
    {NSLog(@"Example 7A: It's false!");}
if (TRUE)
    {NSLog(@"Example 7B: It's true!");}
else
    {NSLog(@"Example 7B: It's false!");}
if (true & 10)
    {NSLog(@"Example 7C: It's true!");}
else
    {NSLog(@"Example 7C: It's false!");}
```

```
// A switch statement!
i = 5;
f = 0;
switch (i) {
    case 5:
        f += i;

    case 4:
        f -= i + 3;

    case 3:
    case 2:
    case 1:
        f *= i + 4;

    default:
        f++;
}
NSLog(@"Example 8A: %f",f);
```

```
// Scoping fun!
i = 5;
{
    int i = 6;
    {
        int i = 7;
        NSLog(@"Example 9A: %d",i);
    }
    NSLog(@"Example 9B: %d",i);
}
NSLog(@"Example 9C: %d",i);
// Comparison operators
f = 3;
if (2 < f < 4)
    {NSLog(@"Example 10A: It's true!");}
else
    {NSLog(@"Example 10A: It's false!");}
f = .3;
if (.2 < f < .4)
    {NSLog(@"Example 10B: It's true!");}
else
    {NSLog(@"Example 10B: It's false!");}
```

```
// Comparing floats
    float newFloat = 2;
    if (newFloat == 2)
        {NSLog(@"Example 13A: It's true!");}
    else
        {NSLog(@"Example 13A: It's false!");}
    newFloat = 0;
    if (newFloat == 0)
        {NSLog(@"Example 13B: It's true!");}
    else
        {NSLog(@"Example 13B: It's false!");}
    newFloat = 1.5;
    if (newFloat == 1.5)
        {NSLog(@"Example 13C: It's true!");}
    else
        {NSLog(@"Example 13C: It's false!");}
    newFloat = 1.15;
    if (newFloat == 1.15)
        {NSLog(@"Example 13D: It's true!");}
    else
        {NSLog(@"Example 13D: It's false!");}
```