

# sizeof AND TERNARY OPERATORS IN OBJECTIVE-C

[http://www.tutorialspoint.com/objective\\_c/objective\\_c\\_sizeof\\_operator.htm](http://www.tutorialspoint.com/objective_c/objective_c_sizeof_operator.htm)

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There are few other important operators including **sizeof** and **? :** supported by Objective-C Language.

Operator	Description	Example
sizeof	Returns the size of a variable.	sizeof a, where a is interger, will return 4.
&	Returns the address of a variable.	&a; will give actual address of the variable.
*	Pointer to a variable.	*a; will pointer to a variable.
? :	Conditional Expression	If Condition is true ?, Then value X : Otherwise value Y

## Example

Try the following example to understand all the miscellaneous operators available in Objective-C programming language:

```
#import <Foundation/Foundation.h>

main()
{
    int a = 4;
    short b;
    double c;
    int* ptr;

    /* example of sizeof operator */
    NSLog(@"Line 1 - Size of variable a = %d\n", sizeof(a) );
    NSLog(@"Line 2 - Size of variable b = %d\n", sizeof(b) );
    NSLog(@"Line 3 - Size of variable c= %d\n", sizeof(c) );

    /* example of & and * operators */
    ptr = &a; /* 'ptr' now contains the address of 'a' */
    NSLog(@"value of a is %d\n", a);
    NSLog(@"*ptr is %d.\n", *ptr);

    /* example of ternary operator */
    a = 10;
    b = (a == 1) ? 20: 30;
    NSLog(@"Value of b is %d\n", b );

    b = (a == 10) ? 20: 30;
    NSLog(@"Value of b is %d\n", b );
}
```

When you compile and execute the above program, it produces the following result:

```
2013-09-07 22:46:22.702 demo[24593] Line 1 - Size of variable a = 4
2013-09-07 22:46:22.703 demo[24593] Line 2 - Size of variable b = 2
2013-09-07 22:46:22.703 demo[24593] Line 3 - Size of variable c= 8
2013-09-07 22:46:22.703 demo[24593] value of a is 4
2013-09-07 22:46:22.703 demo[24593] *ptr is 4.
2013-09-07 22:46:22.703 demo[24593] Value of b is 30
2013-09-07 22:46:22.703 demo[24593] Value of b is 20
```