

C# - MISCELLANEOUS OPERATORS

http://www.tutorialspoint.com/csharp/csharp_misc_operators.htm

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

Operator	Description	Example
sizeof	Returns the size of a data type.	sizeof int, returns 4.
typeof	Returns the type of a class.	typeof StreamReader;
&	Returns the address of an variable.	&a; returns actual address of the variable.
*	Pointer to a variable.	*a; creates pointer named 'a' to a variable.
? :	Conditional Expression	If Condition is true ? Then value X : Otherwise value Y
is	Determines whether an object is of a certain type.	If Ford is Car // checks if Ford is an object of the Car class.
as	Cast without raising an exception if the cast fails.	Object obj = new StreamReader " Hello " ; StreamReader r = obj as StreamReader;

Example

```
using System;
namespace OperatorsApp1
{
    class Program
    {
        static void Main(string[] args)
        {
            /* example of sizeof operator */
            Console.WriteLine("The size of int is {0}", sizeof(int));
            Console.WriteLine("The size of short is {0}", sizeof(short));
            Console.WriteLine("The size of double is {0}", sizeof(double));

            /* example of ternary operator */
            int a, b;
            a = 10;
            b = (a == 1) ? 20 : 30;
            Console.WriteLine("Value of b is {0}", b);

            b = (a == 10) ? 20 : 30;
            Console.WriteLine("Value of b is {0}", b);
            Console.ReadLine();
        }
    }
}
```

When the above code is compiled and executed, it produces the following result:

```
The size of int is 4
The size of short is 2
The size of double is 8
```

Value of b is 30

Value of h is 20

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