## .NET > C#.NET > OOP

## Parameter Modifiers

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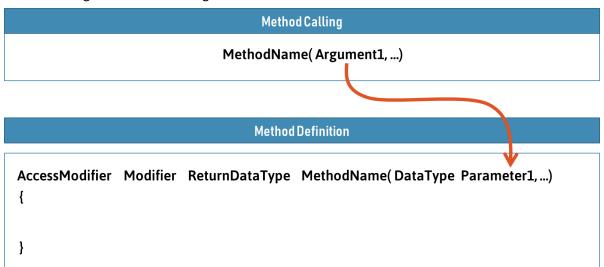
## **Parameter Modifiers**

- 1. Default [Not keyword]
- 2. ref
- 3. out
- 4. in

```
AccessModifier Modifier ReturnDataType MethodName(ref|out|in|params Datatype Parameter1,...)
{
}
```

## 1. Default [No keyword]

• The "Argument" will be assigned into the "Parameter" but not reverse.



## 2. ref

- The "Argument" will be assigned into the "Parameter" and vice versa.
- The Argument must be a variable and must be pre-initialized.

# Method Calling Method Name(ref Argument1, ...) Method Definition AccessModifier Modifier ReturnDataType MethodName(ref DataType Parameter1, ...) .... Parameter1 = value; }

### 3. out

- The "Argument" will not be assigned into the "Parameter" but only reverse.
- The Argument must be a variable; The Argument can be un-initialized.

```
Method Calling

MethodName( out Argument1, ...)
```

```
AccessModifier Modifier ReturnDataType MethodName(out DataType Parameter1,...)
{
    .....
    Parameter1 = value;
}
```

## 4. in

- The "Argument" will be assigned into the "Parameter", but the parameter becomes read-only.
- We can't modify the value of parameter in the method; if you try to change, compile-time error will be shown.

## MethodName(in Argument1, ...) Method Definition AccessModifier Modifier ReturnDataType MethodName(in DataType Parameter1, ...) { .... Parameter1 = value; //error, we can't change the value of parameter }

## 5. params

- All the set of arguments will be at-a-time received as an array into the parameter.
- The "params" parameter modifier can be used only for the last parameter of the method; and can be used only once for one method.

