

Out and Ref Parameters

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While passing the Parameters to function, there are two ways parameters can be passed

Pass the parameters by value or pass the parameter by reference.

Why do we need to pass the parameters by reference?

When we need to return more than one value from a function, we need to use pass by reference.

Here is an example.

<https://github.com/talktoamitdhir/SharpenTheSaw/blob/main/OOPS/InOutRef.cs>

```
public static void Main(string[] args)
{
    int a;
    int b = 5;
    OutRefExample p = new OutRefExample();
    p.Update( out a, ref b );
    Console.WriteLine("out value: {0}", a);
    Console.WriteLine("ref value: {0}", b);
}

public class OutRefExample
{
    public void Update( out int a, ref int b )
    {
        a = 10;
        b = 20;
    }
}
```

1. No need to initialize out parameter before passing it.

1. Must initialize ref parameter else error.

2. Out parameter must be initialized before returning.

2. Initialize not necessary, you can comment this line still fine.