Swap Two Variables

Question: swap two variables without using a third.

<u>**Solutions:**</u>

```python
class Solution:
    def swap1(self,x,y):
        x,y = y,x
        return x,y


    def swap2(self,x,y):
        x = x + y
        y = x - y
        x = x - y
        return x,y


    def swap3(self,x,y):
        x = x * y
        y = int(x / y)
        x = int(x / y)
        return x,y


    def swap4(self,x,y):
        x = x ^ y
        y = x ^ y
        x = x ^ y
        return x,y
```

```python
print ( Solution().swap1(9,6) )
print ( Solution().swap2(9,6) )
print ( Solution().swap3(9,6) )
print ( Solution().swap4(9,6) )
```