

## tf.contrib.graph\_editor.swap\_ts

```
swap_ts(  
    ts0,  
    ts1,  
    can_modify=None,  
    cannot_modify=None  
)
```

Defined in [tensorflow/contrib/graph\\_editor/reroute.py](#).

See the guide: [Graph Editor \(contrib\)](#) > [Module: reroute](#)

For each tensor's pair, swap the end of (t0,t1).

B0 B1 B0 B1 || => X A0 A1 A0 A1

## Args:

- `ts0` : an object convertible to a list of `tf.Tensor`.
- `ts1` : an object convertible to a list of `tf.Tensor`.
- `can_modify` : iterable of operations which can be modified. Any operation outside `within_ops` will be left untouched by this function.
- `cannot_modify` : iterable of operations which cannot be modified. Any operation within `cannot_modify` will be left untouched by this function.

## Returns:

The number of individual modifications made by the function.

## Raises:

- `TypeError` : if `ts0` or `ts1` cannot be converted to a list of `tf.Tensor`.
- `TypeError` : if `can_modify` or `cannot_modify` is not `None` and cannot be converted to a list of `tf.Operation`.

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