

Question 6. [8 MARKS]

Read the API for class `BinaryTree` as well as the docstring and example for `swap_even` below. Then implement `swap_even`.

```
def swap_even(t, depth=0):
```

```
    """
```

```
    Swap left and right children of nodes at even depth.
```

```
    Recall that the root has depth 0, its children have depth 1,
    grandchildren have depth 2, and so on.
```

```
    @param BinaryTree t: tree to carry out swapping on.
```

```
    @param int depth: distance from the root
```

```
    @rtype: None
```

```
>>> b1 = BinaryTree(1, BinaryTree(2, BinaryTree(3)))
```

```
>>> b4 = BinaryTree(4, BinaryTree(5), b1)
```

```
>>> print(b4)
```

```
    1
```

```
      2
```

```
        3
```

```
    4
```

```
      5
```

```
<BLANKLINE>
```

```
>>> swap_even(b4)
```

```
>>> print(b4)
```

```
    5
```

```
    4
```

```
      1
```

```
        3
```

```
      2
```

```
<BLANKLINE>
```

```
    """
```

esp. types

(before)

after

