**7 kyu**

**Inverting a Hash**

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**Summary**

Given a Hash made up of *keys* and *values*, invert the hash by swapping them.

**Examples**

Given:

{ 'a' : 1,

'b' : 2,

'c' : 3 }

Return:

{ 1 : 'a',

2 : 'b',

3 : 'c' }

Given:

{ 'foo' : 'bar',

'hello' : 'world' }

Return:

{ 'bar' : 'foo',

'world' : 'hello' }

**Notes**

* Keys and values may be of any type appropriate for use as a key.
* All hashes provided as input will have unique values, so the inversion is [involutive](https://en.wikipedia.org/wiki/Involution_%28mathematics%29" \t "_blank). In other words, do not worry about identical values stored under different keys.

<https://www.codewars.com/kata/inverting-a-hash/python>

1. **def** invert\_hash(dictionary):
3. dic = {}
4. **for** key **in** dictionary:
5. dic[dictionary[key]] = key
6. **return** dic

9. *#Test.assert\_equals(invert\_hash({(1, 2):"x", "y":(3, 4)}), {"x":(1, 2), (3, 4):"y"})*
11. **print**( invert\_hash({(1, 2):"x", "y":(3, 4)}), {"x":(1, 2), (3, 4):"y"}  )