**7 kyu**

**Swap items in a dictionary**

7091% of 56169[Avanta](https://www.codewars.com/users/Avanta)

* Python
* 3.6.0

Instructions

Output

* In this kata, you will take the keys and values of a dictionary and swap them around.

You will be given a dictionary, and then you will want to return a dictionary with the old values as the keys, and list the old keys as values under their original keys.

For example, given the dictionary: {'Ice': 'Cream', 'Age': '21', 'Light': 'Cream', 'Double': 'Cream'},

you should return: {'Cream': ['Ice', 'Double', 'Light'], '21': ['Age']}

**Notes:**

* + The dictionary given will only contain strings
  + The dictionary given will not be empty
  + You do not have to sort the items in the lists

<https://www.codewars.com/kata/swap-items-in-a-dictionary/train/python>

1. **from** collections **import** defaultdict
2. *#d = defaultdict(list)*
4. **def** switch\_dict(dic):
5. *# Your code here:*
6. ans = defaultdict(list)
8. **for** key **in** dic:
9. **if**(dic[key] **in** ans):
10. ans[dic[key]].append(key)
11. **else**:
12. ans[dic[key]] = []
13. ans[dic[key]].append(key)
15. **return** ans

static Dictionary<string, List< string>> switch\_dict(Dictionary<string, string> dic)

{

Dictionary<string, List<string>> ans = new Dictionary<string, List<string>>();

foreach (KeyValuePair<string, string> kvp in dic)

{

//Console.WriteLine(kvp.Key + " " + kvp.Value);

if (ans.ContainsKey(kvp.Value))

{

ans[kvp.Value].Add(kvp.Key);

}

else

{

ans[kvp.Value] = new List<string>();

ans[kvp.Value].Add(kvp.Key);

}

}

return ans;

}

* **from collections import defaultdict**
* **def switch\_dict(dct):**
* **revDct = defaultdict(list)**
* **for k,v in dct.items(): revDct[v].append(k)**
* **return revDct**
  + - Best Practices5
    - Clever2
  + 0
  + [Fork](https://www.codewars.com/kumite/new?group_id=5a21e877caf681c011000b29&review_id=5a21e44acaf6814cf9000af7)
  + Compare with your solution
  + [Link](https://www.codewars.com/kata/reviews/5a21e44acaf6814cf9000af7/groups/5a21e877caf681c011000b29)
* [siebenschlaefer](https://www.codewars.com/users/siebenschlaefer)
* **def switch\_dict(dic):**
* **result = {}**
* **for key, value in dic.items():**
* **result.setdefault(value, []).append(key)**

**return result**