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Daily Coding Problem #173

Problem

This problem was asked by Stripe.

Write a function to flatten a nested dictionary. Namespace the keys with a period.

For example, given the following dictionary:

You can assume keys do not contain dots in them, i.e. no clobbering will occur.

Solution

One solution is to iterate over every key-value in the dict, check whether it's a dictionary, and if it, recursively flatten it and add its values prefixed with its current key.

```
new_dict = {}
for key, val in d.items():
    if isinstance(val, dict):
        flattened_subdict = flatten(val)
        for flatkey, flatval in flattened_subdict.items():
            new_dict[key + separator + flatkey] = flatval
    else:
        new_dict[key] = val
return new_dict
```

This takes O(n) time since we have to look at every key and value in the original dict.

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