Blog

## **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:

```
{
    "key": 3,
    "foo": {
        "a": 5,
        "bar": {
              "baz": 8
        }
    }
}
```

it should become:

```
{
    "key": 3,
    "foo.a": 5,
    "foo.bar.baz": 8
}
```

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.

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

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