

Advanced Python — exercises and solutions

Solutions have been inserted between the original text of the exercises. Take care :)

Exercise D1 (30 min)

Write a decorator which wraps functions to log function arguments and the return value on each call. Provide support for both positional and named arguments (your wrapper function should take both `*args` and `**kwargs` and print them both):

```
>>> @logged
... def func(*args):
...     return 3 * len(args)
>>> func(4, 4, 4)
you called func(4, 4, 4)
it returned 6
6
```

Solution

As a class:

```
class logged:
    def __init__(self, func):
        self.func = func

    def __call__(self, *args, **kwargs):
        print('you called {._name_}({}{})'.format(
            func,
            str(list(args))[1:-1], # cast to list is because tuple
                                  # of length one has an extra comma
            ', ' if kwargs else '',
            '. '.join('{}={}'.format(*pair) for pair in kwargs.items()),
        ))
        val = func(*args, **kwargs)
        print('it returned', val)
        return val
```

As a function:

```
def logged(func):
    """Print out the arguments before function call and
    after the call print out the returned value
    """

    def wrapper(*args, **kwargs):
        print('you called {._name_}({}{})'.format(
```

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Robert R. Redfield



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