

```
@tail_recursion
```

```
def tfact(n, acc=1):
```

```
    if n == 0: return acc
```

```
    return tfact(n-1, n*acc)
```

```
@tail_recursion
```

```
def tfib(i, current = 0, next = 1):
```

```
    if i == 0: return current
```

```
    else: return tfib(i - 1, next, current + next)
```

```
if __name__ == "__main__":
```

```
    print("10000! :- ", tfact(10000))
```

```
    print("fib(10000) :- ", tfib(10000))
```