Thursday Oct 31, 2024

Name:

Discuss and complete the following questions with the person nearest you. You **may** be asked to share your thoughts with the class.

1. Write a docstring with doctests for the following function:

```python
def factorial(n: int) -> int:
    prod = 1
    for i in range(1,n+1):
        prod = prod*i
    return(prod)
```

2. What is the output of the following code snippet?

```python
def swapZero(d, e):
    f = d
    d[0] = e[0]
    e[0] = f[0]

u = [1, 3, 5]
v = [2, 4, 6]
swapZero(u, v)
print("U", u, "V", v)
```

3. What is the output of the following code snippet?

```python
def swapZero(d, e):
    f = d[:]
    d[0] = e[0]
    e[0] = f[0]

u = [1, 3, 5]
v = [2, 4, 6]
swapZero(u, v)
print("U", u, "V", v)
```