

CSC148H1S

In class exercise, Mar 19, 2018

What would be Big-oh complexity of the following functions with respect to their input size n ?

```
def f1(n: int)->None:
    n = 17 * n**(1/2)
    n = n + 3
    print("n is: {}".format(n))
    if n > 97:
        print('big!')
    else:
        print('not so big!')
```

```
def f2(n: int)->int:
    sum_t = 0
    for ii in range(n):
        sum_t += ii
    return sum_t
```

```
def f3(n: int)->int:
    i, sum_t = 0, 0
    while i ** 2 < n:
        j = 0
        while j ** 2 < n:
            sum_t += i * j
            j += 1
        i += 1
    return sum_t
```