```
def function_1(n: int) -> None:
    temp_list = list()
    for i in range(n**2):
        temp = 0
        for j in range(i):
            temp += j
        temp_list.append(temp)
    sum(temp_list)
```

| | |
|---|---|
| `temp_list = list()` | 1 |
| `for i in range(n**2):` | $n^2$ |
| `temp = 0` | 1 |
| `for j in range(i):` | n |
| `temp += j` | 2 |
| `temp_list.append(temp)` | 1 |
| `sum(temp_list)` | n |

$= 1 + n^2 (1 + n(2)) + n$
$= 1 + n^2 + \mathbf{2n^3} + n$
$\mathbf{O(n^3)}$

```python
def function_2(n: int) -> None:
    print(n)
    for i in range(n):
        temp_list = [j+i for j in range(n)]
        shuffle(temp_list)
        max(temp_list)
```

| | |
|---|---|
| `print(n)` | 1 |
| `for i in range(n):` | n |
| `temp_list = [j+i for j in range(n)]` | $n^2+n$ |
| `shuffle(temp_list)` | n |
| `max(temp_list)` | n |

= 1 + n ( $n^2$ + n + n + n)
= 1 + $\mathbf{n^3}$ + $3n^2$
**$O(n^3)$**