

Run Time Analysis

Task0

Runtime $O(k)$ where k is slice size

Worstcase: Copying the Full list of size leading to $O(n)$

Task1

Worst Case $O(n)$ For iterating over calls and texts csv

Task2

Worst Case $O(n)$ for a complete Iteration

Task3

Worst Case $O(n^2)$ 2-> nested loops for iteration

```
for call in calls:
    if(toMatch in call[0]):
```

```
for call in called_by_bangalore:
    if(toMatch in call):
```

Task4

Worst Case $O(n^2)$ 1->nested loops for iteration

```
for num in outgoing_calls:
    if num in no_defaults:
```

