**SUMMARY**

## USC ID/s:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| M+N | Time in MS (Basic) | Time in MS (Efficient) | Memory in KB (Basic) | Memory in KB (Efficient) |
| 16 | 0.04839897155761719 |  | 68684.0 |  |
| 64 | 0.331878662109375 |  | 68688.0 |  |
| 128 | 1.1754035949707031 |  | 68684.0 |  |
| 256 | 2.9268264770507812 |  | 69068.0 |  |
| 384 | 10.083675384521484 |  | 69280.0 |  |
| 512 | 17.397642135620117 |  | 70300.0 |  |
| 768 | 32.00173377990723 |  | 70524.0 |  |
| 1024 | 76.13539695739746 |  | 70532.0 |  |
| 1280 | 92.27800369262695 |  | 73124.0 |  |
| 1536 | 149.38092231750488 |  | 74804.0 |  |
| 2048 | 307.5244426727295 |  | 75088.0 |  |
| 2560 | 527.1294116973877 |  | 78120.0 |  |
| 3072 | 655.2813053131104 |  | 82304.0 |  |
| 3584 | 741.1599159240723 |  | 83660.0 |  |
| 3968 | 1150.7792472839355 |  | 92272.0 |  |

## Datapoints

## Insights

### Graph1 – Memory vs Problem Size (M+N)

[Add Graph1 here]

#### Nature of the Graph (Logarithmic/ Linear/ Polynomial/ Exponential)

Basic:

Efficient:

#### Explanation:

### Graph2 – Time vs Problem Size (M+N)

[Add Graph2 here]

#### Nature of the Graph (Logarithmic/ Linear/ Polynomial/ Exponential)

Basic:

Efficient:

#### Explanation:

## Contribution

(Please mention what each member did if you think everyone in the group does not have an equal contribution, otherwise, write “Equal Contribution”)

<USC ID/s>: <Equal Contribution>