**SUMMARY**

## USC ID/s:

## Datapoints

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| M+N | Time in MS (Basic) | Time in MS (Efficient) | Memory in KB (Basic) | Memory in KB (Efficient) |
| 16 | 0.04315 | 0.08201 | 13416 | 14248 |
| 64 | 0.51116 | 1.0309 | 14284 | 14476 |
| 128 | 1.9438 | 3.8750 | 14592 | 14408 |
| 256 | 7.6339 | 15.431 | 15092 | 14356 |
| 384 | 18.445 | 34.140 | 15872 | 14304 |
| 512 | 30.827 | 60.188 | 16948 | 14336 |
| 768 | 72.102 | 137.83 | 20428 | 14408 |
| 1024 | 130.62 | 249.43 | 24988 | 14316 |
| 1280 | 213.62 | 388.62 | 30892 | 14396 |
| 1536 | 302.20 | 565.66 | 38384 | 14524 |
| 2048 | 550.26 | 1049.81 | 56572 | 14504 |
| 2560 | 882.36 | 1593.04 | 79140 | 14516 |
| 3072 | 1258.75 | 2212.70 | 89128 | 14560 |
| 3584 | 1959.98 | 3166.67 | 81412 | 13320 |
| 3968 | 2122.50 | 4004.80 | 134808 | 14192 |

## 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>