**SUMMARY**

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## Datapoints

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| M+N | Time in MS (Basic) | Time in MS (Efficient) | Memory in KB (Basic) | Memory in KB (Efficient) |
| 16 | 0.05 | 0.04 | 18064 | 18112 |
| 64 | 0.37 | 0.36 | 18080 | 18160 |
| 128 | 1.36 | 1.37 | 18176 | 18288 |
| 256 | 5.14 | 4.92 | 18864 | 18864 |
| 384 | 11.82 | 11.56 | 19552 | 19584 |
| 512 | 20.98 | 20.43 | 19872 | 19712 |
| 768 | 48.28 | 47.36 | 20752 | 21632 |
| 1024 | 88.34 | 86.14 | 22240 | 23136 |
| 1280 | 140.84 | 136.53 | 22976 | 23856 |
| 1536 | 201.21 | 194.94 | 25040 | 25872 |
| 2048 | 368.72 | 353.58 | 28928 | 37168 |
| 2560 | 569.30 | 555.24 | 36448 | 31952 |
| 3072 | 794.28 | 788.68 | 37216 | 40864 |
| 3584 | 1126.44 | 1089.55 | 41840 | 36896 |
| 3968 | 1410.38 | 1361.83 | 47808 | 57824 |

## 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>