**SUMMARY**

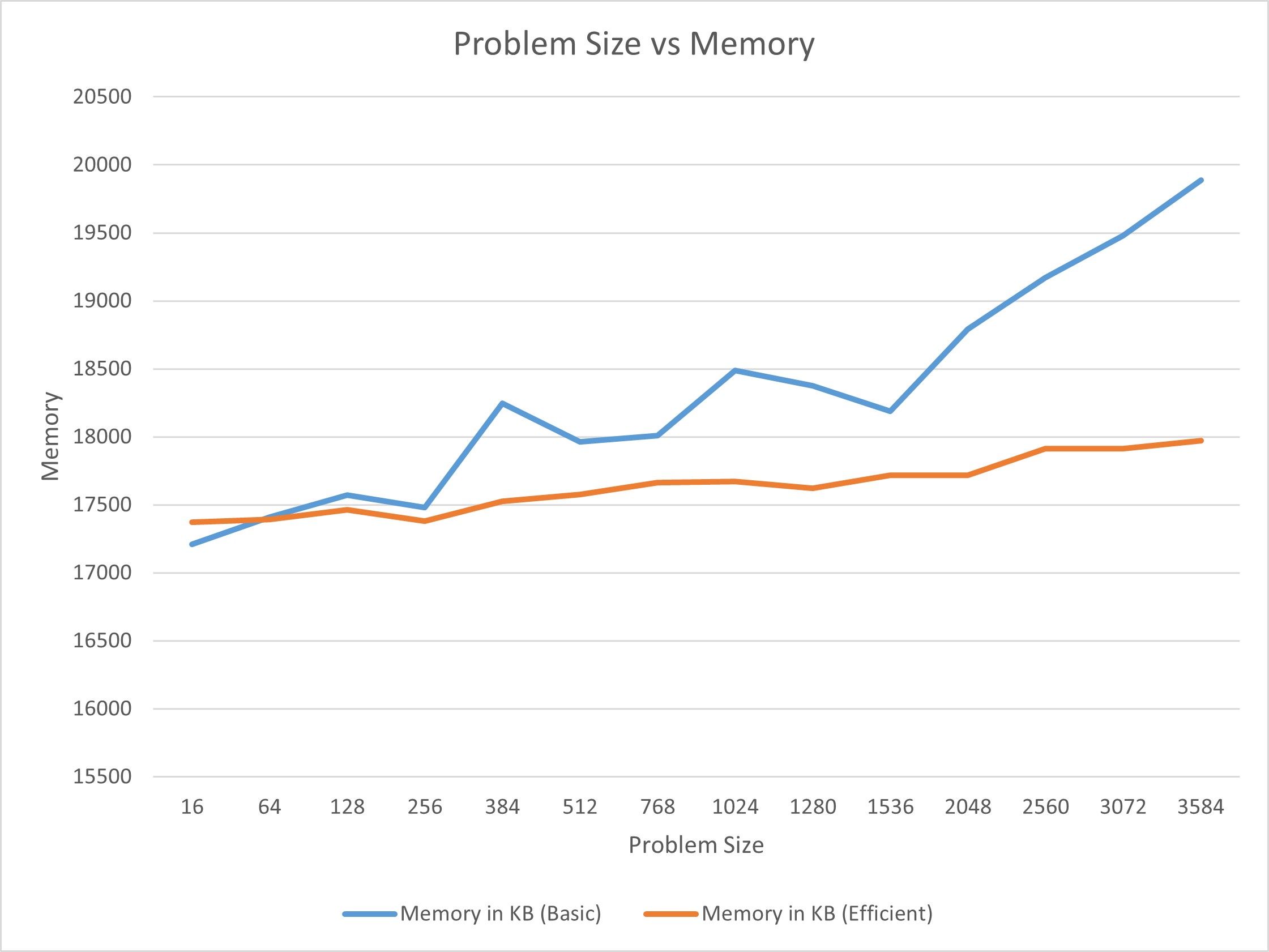
## USC ID/s:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| M+N | Time in MS (Basic) | Time in MS (Efficient) | Memory in KB (Basic) | Memory in KB (Efficient) |
| 16 | 0 | 1 | 17216 | 17436 |
| 64 | 1 | 2 | 17208 | 17372 |
| 128 | 3 | 6.51 | 17408 | 17392 |
| 256 | 12.06 | 23.04 | 17572 | 17464 |
| 384 | 30.73 | 52.17 | 17480 | 17380 |
| 512 | 46.99 | 91.61 | 18248 | 17524 |
| 768 | 118.61 | 195.9 | 17964 | 17576 |
| 1024 | 198.53 | 358.63 | 18008 | 17664 |
| 1280 | 326.58 | 571.07 | 18488 | 17672 |
| 1536 | 457.8 | 817.63 | 18376 | 17620 |
| 2048 | 877.45 | 1469.23 | 18188 | 17716 |
| 2560 | 1336.97 | 2259.41 | 18792 | 17716 |
| 3072 | 1933.9 | 3329.47 | 19172 | 17912 |
| 3584 | 2512.99 | 4372.49 | 19480 | 17912 |
| 3968 | 3271.57 | 5462.42 | 19888 | 17972 |

## Datapoints

## Insights

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



#### 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>