

```

1 C:\Users\athar\AppData\Local\Programs\Python\
  Python311\python.exe A:\Projects\Group66_AoA\
  CSCI570_Project_Minimum\plot.py
2
3 =====
  =====
4 DATA SUMMARY (sorted by problem size)
5 =====
  =====
6 Index      Size      Basic Time      Eff Time
      Basic Mem      Eff Mem
7 -----
  -----
8 1          10+10      0.00          0.00
      40096          40020
9 2          48+48      0.00          0.00
      42148          40648
10 3         90+90      0.32          1.00
      42148          40648
11 4        224+224      2.99          6.45
      42180          40656
12 5        320+320      8.26          15.59
      42748          40656
13 6        337+337     16.63          29.27
      42824          40656
14 7        460+460     39.15          60.16
      41600          40656
15 8        648+648     68.44          122.80
      43076          40656
16 9        909+909    101.73          197.14
      42784          40656
17 10       1024+1024   143.68          288.92
      41276          40224
18 11       1253+1253   268.55          529.00
      40208          40292
19 12       1812+1812   415.74          752.96
      40960          40336
20 13       2149+2149   846.74          1456.62
      41332          40628
21 14       2524+2524  1060.90          1733.39
      42136          40648

```

```
22 15          2560+2560      612.28      1095.29
          41064          40548
23 =====
  =====
24
25 ✓ All costs match between basic and efficient
  versions
26
27 =====
  =====
28 PERFORMANCE STATISTICS
29 =====
  =====
30 Average Basic Time:      239.03 ms
31 Average Efficient Time:  419.24 ms
32 Time Ratio (Eff/Basic):  1.75x
33
34 Average Basic Memory:    41772 KB
35 Average Efficient Memory:40529 KB
36 Memory Ratio (Eff/Basic):0.97x
37 Memory Saved:           1243 KB (3.0%)
38 =====
  =====
39
40
41 Process finished with exit code 0
42
```