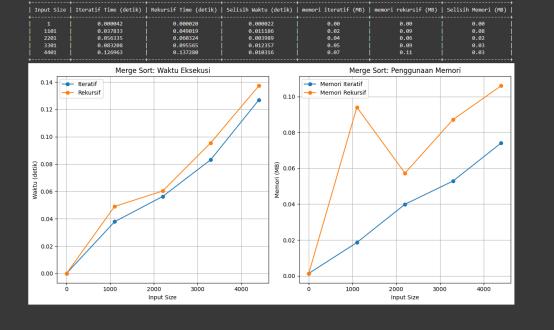


```
profiler.disable()
                     _, peak = tracemalloc.get_traced_memory()
tracemalloc.stop()
                     return waktu_selesai - waktu_mulai, peak/1024/1024
[98] def update_graph(nilai_N, waktu_iteratif, waktu_rekursif): # Fungsi untuk memperbarui grafik
    plt.figure(figsize-(12, 6))
        plt.subplot(x, 2, 1)
        plt.plot(nilai N, waktu_iteratif, label='Iteratif', marker='o')
        plt.plot(nilai N, waktu_rekursif, label='Rekursif', marker='o')
        plt.title('Merpe Sort: Waktu Eksekusi')
        plt.ylabel('input Size')
        plt.ylabel('waktu (detik)')
        plt.legend()
        plt.grid(True)
                    plt.subplot(1, 2, 2)
plt.plot(nilai_N, memori_iteratif, label='Memori Iteratif', marker='o')
plt.plot(nilai_N, memori_rekursif, label='Memori Rekursif', marker='o')
plt.titlet('Pereg Sort: Penggunaan Memori')
plt.vlabel('Input Size')
plt.ylabel('Memori (MB)')
plt.legend()
plt.grid(True)
                     plt.tight_layout()
plt.show()
  for n, waktu_iter, waktu_rek, iter_mem, rek_mem in zip(
nilai_N, waktu_iteratif, waktu_rekursif,memori_iteratif, memori_rekursif
                             table.add_row([
                                     n,
f'(waktu_iter:.6f)",
f'(waktu_rek:.6f)",
f'(abs(waktu_iter - waktu_rek):.6f)",
f'(iter_mem:.2f)",
f'(rek_mem:.2f)",
f'(abs(iter_mem - rek_mem):.2f)"
                     main():
# URL RAW file dari GitHub
link_github = 'https://raw.githubusercontent.com/AdithanaDharma/Iterative-vs-Recursive-Merge-Sort-for-Rating-on-MyAnimeList-Website/refs/heads/main/Data%20Rating%20MAL.txt
link_github = 'https://raw.githubusercontent.com/AdithanaDharma/Iterative-vs-Recursive-Merge-Sort-for-Rating-on-MyAnimeList-Website/refs/heads/main/Data%20Rating%20MAL.txt
                                             print("Gagal membaca data.")
break
                                      # Profiling dan ukur waktu
iterative_time, iter_mem = profile_sorting_algorithm(
merge_sort_Iteratif,
data
                                       )
recursive_time, rek_mem = profile_sorting_algorithm(
   merge_sort_rekursif,
   data
                                     # Tambahkan ke daftar
nilai_N.append(n)
waktu_iteratif.append(iterative_time)
waktu_rekursif.append(recursive_time)
memori_iteratif.append(iter_mem)
memori_rekursif.append(rek_mem)
                                       print_performance_table(
                                              nilai_N,
waktu_iteratif,
waktu_rekursif
                                      # Update grafik
update_graph(
    nilai_N,
    waktu_iteratif,
                                               waktu_rekursif
                                      # Naikkan ukuran input
n += 1100
                              except Exception as e:
    print(f"Terjadi kesalahan: {e}")
             if __name__
main()
                     0.02
                                                                                                                                                                                        0.02
                     0.00
                                                                                                                                                                                       0.00
                                                       500
                                                                         1000
                                                                                             1500
                                                                                                               2000
                                                                                                                                   2500
                                                                                                                                                       3000
                                                                                                                                                                                                                         500
                                                                                                                                                                                                                                            1000
                                                                                                                                                                                                                                                                                  2000
                                                                                                                                                                                                                                                                                                     2500
                                                                                                                                                                                                                                                                                                                         3000
                                                                                                                                                                                                                                                               1500
                                                                                                                                                                                                                                                                Input Size
                                                                                              Input Size
```



Colab paid products - Cancel contracts here

Os completed at 2:27 A