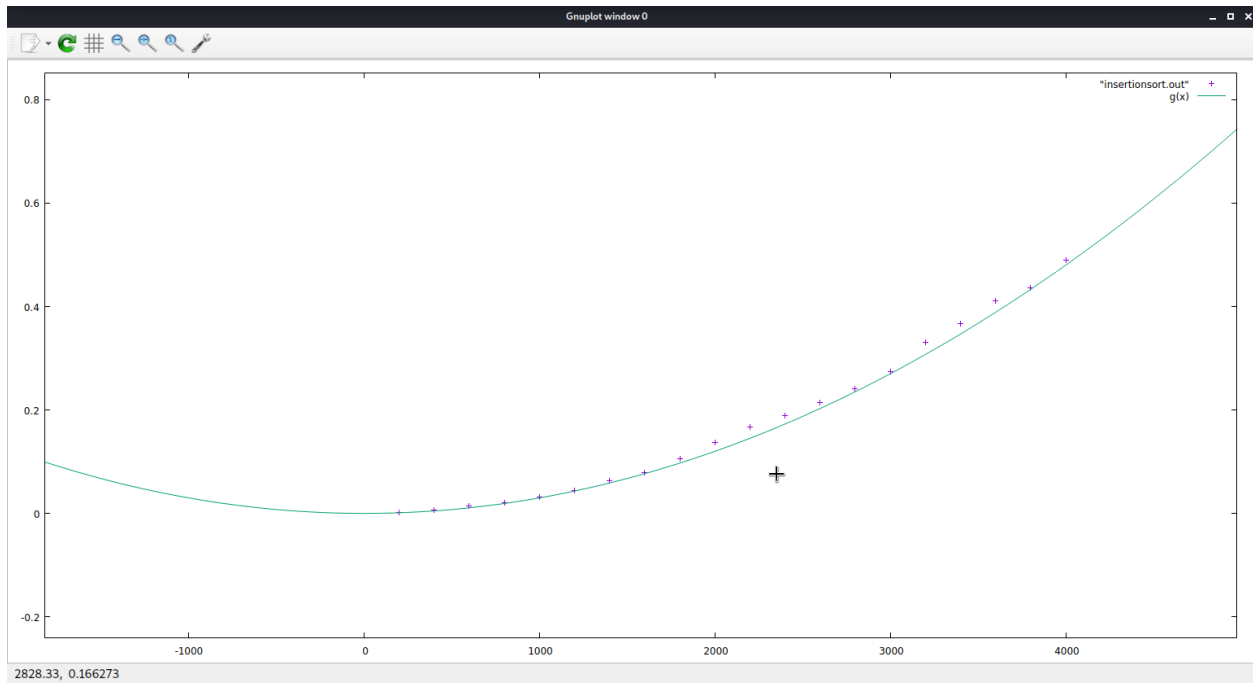


Nume: Mateescu Viorel-Cristian

Grupa: 322CB

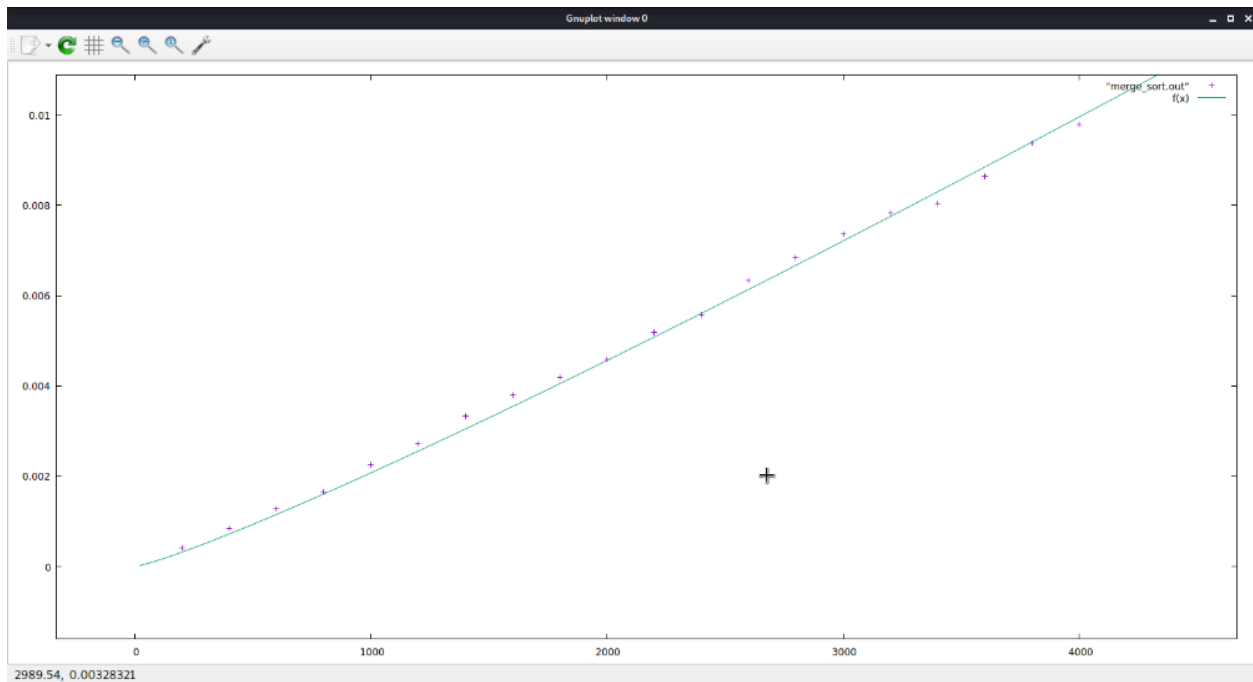
TASK 3: - insertionsort.out



Valori: $c = 3 \cdot 10^{-7}$

```
insertionsort - Notepad
File Edit Format View Help
200 0.00157237052917
400 0.00653004646301
600 0.01405930519104
800 0.02073121070862
1000 0.03122329711914
1200 0.04397153854370
1400 0.06339656066895
1600 0.07832699928284
1800 0.10522580146790
2000 0.13797926902771
2200 0.16756010055542
2400 0.18909454345703
2600 0.21509790420532
2800 0.24156260490417
3000 0.27446860313416
3200 0.33159494400024
3400 0.36722340583801
3600 0.41060592651367
3800 0.43664321899414
4000 0.49029763221741
```

TASK 4 – merge_sort.out



Valori: $c = 3 \cdot 10^{-6}$

merge_sort - Notepad

File Edit Format View Help

```
200 0.00040602684021
400 0.00084924697876
600 0.00127840042114
800 0.00165915489197
1000 0.00225758552551
1200 0.00271248817444
1400 0.00332307815552
1600 0.00380063056946
1800 0.00419974327087
2000 0.00458428527832
2200 0.00517889213562
2400 0.00558063049316
2600 0.00633978843689
2800 0.00683164596558
3000 0.00736498832703
3200 0.00782966613770
3400 0.00804710388184
3600 0.00863718986511
3800 0.00937652587891
4000 0.00978279113770
```

Observatii:

- Functia $g(x) = c * n * n$
- Functia $f(x) = c * n * \log(n)$
- Nume hackerrank: Mateescu_Viorel