# report2

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# 1 SPRAWOZDANIE

system operacyjny: Linux Ubuntu 22.04.4 LTS Intel® Core<sup>TM</sup> i7-7500U CPU @ 2.70GHz × 4 RAM 16 Gb 
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# 1.1 KONFIGURACJA

# 1.2 TWORZENIE TESTÓW

```
[2]: main.create_tests(TESTS, TEST_SIZES, MAX_NUM, MIN_NUM)
```

# 1.3 KOMPILACJA

```
[3]: main.compile_sources(SOURCES, BINS, v=True)

Executing: gcc sources/AVL.c -o bins/AVL -lm

Executing: gcc sources/BST.c -o bins/BST -lm
```

### 1.4 URUCHOMIENIE

```
[4]: for algo in os.listdir(BINS):
    for ts in TEST_SIZES:
        main.run_algo(BINS, TESTS, RESULTS, ts, algo, v=VERBOSE)
```

### 1.5 WYKRESY

```
[3]: create, minim, balance = main.read_results(RESULTS)

plt.title("TWORZENIE STRUKTURY", fontsize=16, color='green')
main.plot_graf(create, marker='.', linestyle='-', undtitle=False)

plt.title("WYSZUKANIE MINIMUM", fontsize=16, color='green')
main.plot_graf(minim, marker='.', linestyle='-', undtitle=True)

plt.title("RÓWNOWAŻENIE", fontsize=16, color='green')
main.plot_graf(balance, marker='.', linestyle='-', undtitle=False)
```







