**Izveštaj – prvi zadatak**

**Algoritam: Knut-Moris-Prat**

Best-Case Scenario: O(n+m)

Worst-Case Scenario: O(n+m)

Ascii karakteri:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Broj reči u fajlu | Podstring od 5 karaktera | Podstring od 10 karaktera | Podstring od 20 karaktera | Podstring od 50 karaktera |
| 100 | 0.01641 ms | 0.00618 ms | 0.00639 ms | 0.00572 ms |
| 1000 | 0.04902 ms | 0.05874 ms | 0.05934 ms | 0.04682 ms |
| 10000 | 0.49434 ms | 0.62088 ms | 0.61130 ms | 0.48721 ms |
| 100000 | 1.30432 ms | 1.67979 ms | 1.61548 ms | 1.27839 ms |

Vremena računata kao prosek 25 trazenja. Zaokruzeno na 5 decimale.

Hex karakteri:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Broj reči u fajlu | Podstring od 5 karaktera | Podstring od 10 karaktera | Podstring od 20 karaktera | Podstring od 50 karaktera |
| 100 | 0.01991 ms | 0.00846 ms | 0.00710 ms | 0.00828 ms |
| 1000 | 0.06666 ms | 0.07985 ms | 0.06734 ms | 0.06761 ms |
| 10000 | 0.66322 ms | 0.83686 ms | 0.68749 ms | 0.66972 ms |
| 100000 | 6.66053 ms | 7.51993 ms | 6.65061 ms | 6.63237 ms |

Vremena računata kao prosek 25 trazenja. Zaokruzeno na 5 decimale.

**Aloritam: SoundEx**

|  |  |  |  |
| --- | --- | --- | --- |
| Broj reči u fajlu | Podstring od 5 karaktera | Podstring od 10 karaktera | Podstring od 20 karaktera |
| 100 | 1.0793 ms | 0.4735 ms | 0.3076 ms |
| 1000 | 3.2747 ms | 2.2836 ms | 1.1123 ms |
| 10000 | 49.8561 ms | 14.6157 ms | 7.9802 ms |
| 100000 | 57.1848 ms | 31.2902 ms | 23.5728 ms |

Pronadjene rec isa istim kodom a drugacije se pisu:

|  |  |  |  |
| --- | --- | --- | --- |
| Uneti podstring | space | darth vader | ANOTHER ICE CORRIDOR |
| Fajl od 100 reci | / | / | / |
| Fajl od 1000 reci | ships. | / | ANOTHER |
| Fajl od 10000 reci | ships. spies scopes ships space. ships speaks. ships ships ships space, speaks sweeps ship's space. | / | ANOTHER another another another another another Another Another |
| Fajl od 100000 reci | ships. spies scopes ships space. ships speaks. ships ships ships space, speaks sweeps ship's space. space. scopes ship's spooky ships speaks speaks, scopes. speaks ships. speaks, ship's swoops scopes space, space, ship's space, scopes. ships ships. space, ship's space. speak, sweeps space. space. speck space. ship's space. space. space. | dreadful | ANOTHER another another another another another Another Another Another another another another another ANTEROOM another. another another another another another another, another ANTEROOM anteroom anteroom ANTEROOM ANTEROOM Another another Another another another another Another another |

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