

=====zad 3=====

Measuring build time for DBF and Suffix Tree:

Measuring time for DBF --- romeo

It took --- 75828300 ns

It took --- 0.07582831382751465 s

Measuring time for Suffix Tree --- romeo

It took --- 87770500 ns

It took --- 0.08777046203613281 s

Measuring time for DBF --- statute

It took --- 623840200 ns

It took --- 0.62384033203125 s

Measuring time for Suffix Tree --- statute

It took --- 1896750300 ns

It took --- 1.8967504501342773 s

Measuring time for DBF --- zad6

It took --- 3989100 ns

It took --- 0.003988981246948242 s

Measuring time for Suffix Tree --- zad6

It took --- 4988700 ns

It took --- 0.004988670349121094 s

=====zad 4=====

Measuring size of DBF and original text file

Measuring size for --- Romeo

Size of DBF in bytes --- 101536

Size of romeo-i-julia-700.txt in bytes --- 14208

Measuring size for --- statute

Size of DBF in bytes --- 1971920

Size of romeo-i-julia-700.txt in bytes --- 254133

Measuring size for --- zad6

Size of DBF in bytes --- 7584

Size of romeo-i-julia-700.txt in bytes --- 947

=====zad 5=====

Comparing matching patterns indexes times for KMP and DBF:

Measuring pattern matches finding time for KMP Algorithm --- Romeo

It took --- 2027200 ns

It took --- 0.002027273178100586 s

Measuring pattern matches finding time for DBF --- Romeo

It took --- 67786800 ns

It took --- 0.06778669357299805 s

Matches indexes for KMP and DBF respectively --- Romeo for pattern "Romeo":

[21, 7233, 8847, 11078]

[21, 7233, 8847, 11078]

Measuring pattern matches finding time for KMP Algorithm --- Statute

It took --- 41888200 ns

It took --- 0.04188823699951172 s

Measuring pattern matches finding time for DBF --- Statute

It took --- 1646495700 ns

It took --- 1.6464958190917969 s

Matches indexes for KMP and DBF respectively --- Statute for pattern "dnia":

[268, 1797, 2829, 10683, 13145, 13609, 14012, 14634, 14675, 15191, 15580, 15625, 23142, 28859, 29105, 29374, 30227, 32641, 33136, 35013, 35664, 36282, 36743, 36953, 37096, 37866, 42405, 45258, 47284, 48633, 50565, 50811, 51121, 51327, 51615, 51732, 52959, 55194, 55205, 56795, 57668, 58658, 59086, 59169, 59180, 59434, 59607, 60822, 61348, 61994, 62017, 62559, 66666, 66679, 66806, 67617, 68276, 68804, 70336, 71450, 71974, 72771, 75429, 75504, 75515, 75755, 76219, 77485, 77496, 77545, 78143, 80316, 85647, 86137, 86879, 88741, 89096, 89930, 115426, 134085, 148051, 210244, 225956, 228007, 233574, 243143, 244832]

[268, 1797, 2829, 10683, 13145, 13609, 14012, 14634, 14675, 15191, 15580, 15625, 23142, 28859, 29105, 29374, 30227, 32641, 33136, 35013, 35664, 36282, 36743, 36953, 37096, 37866, 42405, 45258, 47284, 48633, 50565, 50811, 51121, 51327, 51615, 51732, 52959, 55194, 55205, 56795, 57668, 58658, 59086, 59169, 59180, 59434, 59607, 60822, 61348, 61994, 62017, 62559, 66666, 66679, 66806, 67617, 68276, 68804, 70336, 71450, 71974, 72771, 75429, 75504, 75515, 75755, 76219, 77485, 77496, 77545, 78143, 80316, 85647, 86137, 86879, 88741, 89096, 89930, 115426, 134085, 148051, 210244, 225956, 228007, 233574, 243143, 244832]

Measuring pattern matches finding time for KMP Algorithm --- zad6

It took --- 0 ns

It took --- 0.0 s

Measuring pattern matches finding time for DBF --- zad6

It took --- 4953900 ns

It took --- 0.004953861236572266 s

Matches indexes for KMP and DBF respectively --- zad6 for pattern "wzorca":

[92, 162, 465, 539]

[92, 162, 465, 539]