Сравнительный анализ скорости работы классов String и StringBuilder :

|  |  |  |  |
| --- | --- | --- | --- |
|  | **100 000 итераций** | **500 000 итераций** | **1 000 000 итераций** |
| **String** | **1.375 сек** | **1:07.835 сек** | **6:59.894 сек** |
| **StringBuilder** | **0.00 сек** | **0.03 сек** | **0.06 сек** |

Welcome to the lab "Basics of C#"

These subtasks are implemented:

0. 3.1 box area calculation

1. 3.2 Asterisk right triangle generation

2. 3.3 Asterisk isosceles triangle generation

3. 3.4 Chain of triangles generation

4. 3.5 Calculate the sum of a number range, divisible by 3 and 5

5. 3.6 Font attributes demo

6. 3.7 Array data processing

7. 3.8 Cube Array processing

8. 3.9 Positive elements sum in an array

9. 3.10 Even-positioned element sum in an array

10. 3.11 Calculate average word length

11. 3.12 expand original string with matching symbols

12. 3.13 Performance analysis of string and StringBulder class

Please make your choice, any other number to exit :12

RunTime for **100000** iterations of string is **00:01.375**

RunTime for **100000** iterations of StringBuilder is **00:00.00**

press any key to continue ...

Please make your choice, any other number to exit :12

RunTime for **500000** iterations of string is **01:07.835**

RunTime for **500000** iterations of StringBuilder is **00:00.03**

press any key to continue ...

Please make your choice, any other number to exit :12

RunTime for **1000000** iterations of string is **06:59.894**

RunTime for **1000000** iterations of StringBuilder is **00:00.06**

press any key to continue ...

