# STRESS TEST ALGORITHM FUNCTIONS

**Test Case**

TCST0001

BASIC OPERATION OF SORTING ALGORITHM **(TS0001)**

| **Author:** DenisDennisov | **Spec ID:** TP0001 | **Priority:** 2 | **Producer:** DenisDennisov | **Developer:** DenisDennisov |
|---|---|---|---|---|
| **OVERVIEW:** Stress testing the functionality of the algorithm | | | | |
| **GLOBAL SETUP and ADDITIONAL INFO:** **1. Algorithm on C++:** test_stress_and_memory.exe **2. Colors order:** 3, C, K | | | | |

# Revision History

| ***Date*** | ***Version*** | ***Description*** | ***Author*** |
|---|---|---|---|
| 02.09.2024 | 1.0 Alpha | Created a test case #TCST0001 | DenisDennisov |

# BASIC OPERATION OF SORTING ALGORITHM **(TS0001)**

| **Author:** DenisDennisov | **Spec ID:** TP0001 | **Priority:** 2 | **Producer:** DenisDennisov | **Developer:** DenisDennisov |
|---|---|---|---|---|
| **OVERVIEW:** Stress testing the functionality of the algorithm | | | | |
| **GLOBAL SETUP and ADDITIONAL INFO:**<br>**1. Algorithm on C++:** test_stress_and_memory.exe<br>**2. Colors order:** 3, C, K | | | | |

| **TC ID/Priority** | **TCST0001** | **2** |
|---|---|---|
| **IDEA:**<br>Stress testing multiple values<br><br>**SETUP and ADDITIONAL INFO:**<br>**1. Testing array colors:** Random<br>**2. Color order:** 3, C, K | | |
| **Revision History** | | |
| **Created on:** 04.09.2024<br>**by:** DenisDennisov | New Test Case | |
| **Execution part** | | |

| **PROCEDURE** | **EXPECTED RESULT** |
|---|---|
| 1. Start file stress testing (test_stress_and_memory.exe).<br><br>2. In the console that appears, in the line (Enter the number of elements to generate (max 10 million)) enter a value from 1 to 10 million and press enter.<br><br>3. Wait until the test generates the specified number of random array of colors (3, C, K).<br><br>4. Write results.<br><br>5. If you need a result on a different number of arrays, repeat all the steps in the case. | The entered number of items sorted, the time spent and the time per item. |