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CS 4387

2/12/20

Blackbox test Homework

Develop a test set for the TableSort program you turned in this week.

Document these so that a tester can run them.

|  |  |  |
| --- | --- | --- |
| Input | Valid Equivalence Classes | Invalid Equivalence Classes |
| Table Size:  A number N such that N > 0 and N is a perfect square.  N < 2,147,483,647 | N > 0 and a perfect square  N < 2,147,483,647 | N which is not a perfect square.  N <= 0  N >= 2,147,483,647  N not an integer |
| Table Values:  (N\*N) amount of integers  -2,147,483,648 <= integers <= 2,147,483,647 | -2,147,483,648 <= (N\*N) amount of integers <= 2,147,483,647 | Not N\*N amount of integers  Integers < -2,147,483,648  Integers > 2,147,483,648 |

**TESTS**

|  |  |  |  |
| --- | --- | --- | --- |
| Tests | Table Size | Table Values | Expected outcome |
| 1 | 0x0 | Null | Null |
| 2 | 1x1 | [1] | |  | | --- | | 1 | |
| 3 | 2x2 | [6, 4, 8, 1] | |  |  | | --- | --- | | 1 | 6 | | 4 | 8 | |
| 4 | 3x3 | [50, 42, 8, 36, -5, 71, -2, -47, 0] | |  |  |  | | --- | --- | --- | | -47 | -2 | 0 | | -5 | 36 | 50 | | 8 | 42 | 71 | |
| 5 | 3x3 | [8, 0, 0, 8, 8, 0, 8, 0, 0] | |  |  |  | | --- | --- | --- | | 0 | 0 | 8 | | 0 | 0 | 8 | | 0 | 8 | 8 | |
| 6 | -1 | Null | Incorrect Input Message |
| 7 | a | Null | Incorrect Input Message |
| 8 | 2x2 | [j, a, d, x] | Incorrect Input Message |
| 9 | 2x2 | [2147483647, 2137483647, 2147483547, 2147483646] | |  |  | | --- | --- | | 2147483647 | 2137483647 | | 2147483547 | 2147483646 | |
| 10 | 2x2 | [2147483648, 2147483650, 2147483651, 2147483649] | Incorrect Input Message |