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=====
=== Compiling with gcc -Wall -std=c99 -o ass1 *.c -lm
=====
5  === Static analysis with clang --analyze *.c
=====
=== Compilation finished
=== Submission testing begins
10 test 1: ass1 data3.txt < test3.txt
=== Output: matches expectations
    csv data loaded from ../data/data3.txt (774 rows by 3 cols)
>
    column 0: quiz1
    column 1: quiz2
    column 2: average
>
    quiz2
    max =    10.0
    min =     0.0
    avg  =     6.2
20
    quiz1 (sorted)
    max =    10.0
    min =     0.0
    avg  =     7.2
    med  =     8.0
25
>
30  0.0 +
    0 | ]]]]]]
    1 | ]]]]]]]]
    2 | ]]]
    1.0 +
    0 | ]
    1 | ]]]
    2 | ]]
    2.0 +
    0 | ]]]
    1 | ]]]]]]
    2 | ]]]]]]
    3.0 +
    0 | ]]]]
    1 | ]]]]]]
    2 | ]]]]]]]]
    4.0 +
    0 | ]]]]]]]]
    1 | ]]]]]]]]]]]]]]]]]]]]
    2 | ]]]]]]]]]]
    45  5.0 +
    0 | ]]]]]]]]]]]]
    1 | ]]]]]]]]]]]]]]]]]]]]]]
    2 | ]]]]]]]]]]]]]]]]]]]]]]
    50  6.0 +
    0 | ]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
    1 | ]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
    2 | ]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
    55  7.0 +
    0 | ]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
    1 | ]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
    2 | ]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
    60  8.0 +
    0 | ]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
    1 | ]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
    2 | ]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
    65  9.0 +
    0 | ]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
    1 | ]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
    2 | ]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
    10.0 +
    scale = 5
70  >
    quiz1
    0.0 (26 instances)
    1.0 ( 1 instance)

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75      2.0      (12 instances)
        2.5      ( 1 instance)
        3.0      (13 instances)
        3.5      ( 5 instances)
        4.0      (26 instances)
80      4.5      (11 instances)
        5.0      (35 instances)
        5.5      (15 instances)
        6.0      (89 instances)
        6.5      (16 instances)
85      7.0      (95 instances)
        7.5      (17 instances)
        8.0      (141 instances)
        8.5      (11 instances)
        9.0      (150 instances)
90      9.5      ( 8 instances)
        10.0     (102 instances)
>
> sorted by: average, quiz1, quiz2
>
95      quiz1
      max =      10.0
      min =       0.0
      avg  =       7.2

100     quiz2
      max =      10.0
      min =       0.0
      avg  =       6.2

105     average (sorted)
      max =      10.0
      min =       0.0
      avg  =       6.7
      med  =       7.0
110 >
      average
        0.0      (11 instances)
        1.0      ( 2 instances)
        1.3      ( 1 instance)
115     1.5      ( 1 instance)
        1.8      ( 2 instances)
        2.0      (11 instances)
        2.3      ( 1 instance)
        2.5      (12 instances)
120     2.8      ( 1 instance)
        3.0      ( 9 instances)
        3.3      ( 3 instances)
        3.5      (15 instances)
        3.8      ( 6 instances)
125     4.0      (12 instances)
        4.3      ( 5 instances)
        4.5      (19 instances)
        4.8      (11 instances)
        5.0      (27 instances)
130     5.3      (16 instances)
        5.5      (32 instances)
        5.8      (21 instances)
        6.0      (37 instances)
        6.3      (30 instances)
135     6.5      (42 instances)
        6.8      (24 instances)
        7.0      (56 instances)
        7.3      (21 instances)
        7.5      (52 instances)
140     7.8      (21 instances)
        8.0      (76 instances)
        8.3      (21 instances)
        8.5      (59 instances)
        8.8      ( 9 instances)
145     9.0      (61 instances)
        9.3      ( 3 instances)
        9.5      (27 instances)
        9.8      ( 1 instance)

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10.0      (16 instances)
150 >
Ta daa!!!
=====
=== test 2: assl data4.txt < test4.txt
=== Output: matches expectations
155 csv data loaded from ../data/data4.txt (365 rows by 6 cols)
>
column 0: station
column 1: year
column 2: month
160 column 3: day
column 4: maxtemp
column 5: mintemp
>
year (sorted)
165 max = 1971.0
min = 1971.0
avg = 1971.0
med = 1971.0

station (sorted)
170 max = 86282.0
min = 86282.0
avg = 86282.0
med = 86282.0

175 month (sorted)
max = 12.0
min = 1.0
avg = 6.5
180 med = 7.0
>
station
year
month
185 1.0 1971.0 86282.0 (31 instances)
2.0 1971.0 86282.0 (28 instances)
3.0 1971.0 86282.0 (31 instances)
4.0 1971.0 86282.0 (30 instances)
5.0 1971.0 86282.0 (31 instances)
190 6.0 1971.0 86282.0 (30 instances)
7.0 1971.0 86282.0 (31 instances)
8.0 1971.0 86282.0 (31 instances)
9.0 1971.0 86282.0 (30 instances)
10.0 1971.0 86282.0 (31 instances)
195 11.0 1971.0 86282.0 (30 instances)
12.0 1971.0 86282.0 (31 instances)
>
-1.2 +
4 |
200 5 | |||||
2.7 +
4 |
5 | |||||
6.6 +
205 4 | ||
5 | |||||
10.6 +
4 | |||||
5 | |||||
210 14.5 +
4 | |||||
5 | |||||
18.4 +
215 4 | |||||
5 | |||
22.3 +
4 | |||||
5 | ]
26.2 +
220 4 | |||||
5 |
30.2 +

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      4 | |||||
      5 |
225    34.1 +
      4 | ||||
      5 |
      38.0 +
scale = 2
230 >
      1.0 +
      2 | |||||
      2.1 +
      2 | |||||
235    3.2 +
      2 | |||||
      4.3 +
      2 | |||||
      5.4 +
240    6.5 +
      2 | |||||
      7.6 +
      2 | |||||
245    8.7 +
      2 | |||||
      9.8 +
      2 | |||||
      10.9 +
250    12.0 +
scale = 2
>
      maxtemp
255    max =    38.0
      min =     9.3
      avg =    19.4

      mintemp
260    max =    24.4
      min =    -1.2
      avg =     9.4
>
      sorted by: year, month, maxtemp, day
265 >
      month
      year
1971.0    1.0    (31 instances)
1971.0    2.0    (28 instances)
270 1971.0    3.0    (31 instances)
1971.0    4.0    (30 instances)
1971.0    5.0    (31 instances)
1971.0    6.0    (30 instances)
1971.0    7.0    (31 instances)
275 1971.0    8.0    (31 instances)
1971.0    9.0    (30 instances)
1971.0   10.0    (31 instances)
1971.0   11.0    (30 instances)
1971.0   12.0    (31 instances)
280 >
      sorted by: mintemp, maxtemp
>
      mintemp
-1.2    ( 1 instance)
285 -0.5    ( 1 instance)
      0.3    ( 1 instance)
      0.4    ( 1 instance)
      1.2    ( 3 instances)
      1.5    ( 1 instance)
290    1.8    ( 1 instance)
      2.0    ( 1 instance)
      2.2    ( 2 instances)
      2.3    ( 3 instances)
      2.5    ( 1 instance)
295    2.6    ( 1 instance)
      2.7    ( 1 instance)

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| | | |
|-----|------|----------------|
| | 2.9 | (1 instance) |
| | 3.0 | (1 instance) |
| | 3.1 | (1 instance) |
| 300 | 3.2 | (2 instances) |
| | 3.3 | (3 instances) |
| | 3.4 | (4 instances) |
| | 3.6 | (5 instances) |
| | 3.7 | (3 instances) |
| 305 | 3.8 | (2 instances) |
| | 3.9 | (2 instances) |
| | 4.0 | (2 instances) |
| | 4.1 | (2 instances) |
| | 4.2 | (2 instances) |
| 310 | 4.3 | (4 instances) |
| | 4.5 | (2 instances) |
| | 4.6 | (3 instances) |
| | 4.7 | (2 instances) |
| | 4.8 | (2 instances) |
| 315 | 5.0 | (1 instance) |
| | 5.1 | (6 instances) |
| | 5.2 | (4 instances) |
| | 5.3 | (1 instance) |
| | 5.4 | (1 instance) |
| 320 | 5.5 | (2 instances) |
| | 5.6 | (6 instances) |
| | 5.7 | (4 instances) |
| | 5.9 | (3 instances) |
| | 6.1 | (5 instances) |
| 325 | 6.2 | (3 instances) |
| | 6.3 | (7 instances) |
| | 6.4 | (2 instances) |
| | 6.6 | (3 instances) |
| | 6.7 | (1 instance) |
| 330 | 6.8 | (6 instances) |
| | 6.9 | (4 instances) |
| | 7.0 | (1 instance) |
| | 7.1 | (3 instances) |
| | 7.2 | (3 instances) |
| 335 | 7.3 | (5 instances) |
| | 7.4 | (1 instance) |
| | 7.5 | (2 instances) |
| | 7.6 | (3 instances) |
| | 7.7 | (3 instances) |
| 340 | 7.8 | (6 instances) |
| | 7.9 | (6 instances) |
| | 8.0 | (1 instance) |
| | 8.1 | (3 instances) |
| | 8.2 | (2 instances) |
| 345 | 8.3 | (10 instances) |
| | 8.4 | (3 instances) |
| | 8.5 | (4 instances) |
| | 8.6 | (2 instances) |
| | 8.7 | (4 instances) |
| 350 | 8.8 | (2 instances) |
| | 8.9 | (2 instances) |
| | 9.1 | (2 instances) |
| | 9.2 | (2 instances) |
| | 9.3 | (2 instances) |
| 355 | 9.4 | (5 instances) |
| | 9.5 | (3 instances) |
| | 9.6 | (5 instances) |
| | 9.7 | (2 instances) |
| | 9.8 | (2 instances) |
| 360 | 9.9 | (4 instances) |
| | 10.0 | (5 instances) |
| | 10.1 | (4 instances) |
| | 10.2 | (1 instance) |
| | 10.3 | (3 instances) |
| 365 | 10.4 | (2 instances) |
| | 10.6 | (4 instances) |
| | 10.7 | (2 instances) |
| | 10.8 | (1 instance) |
| | 11.1 | (3 instances) |
| 370 | 11.2 | (4 instances) |

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11.4      ( 3 instances)
11.5      ( 4 instances)
11.7      ( 5 instances)
11.8      ( 7 instances)
375 11.9      ( 1 instance)
12.1      ( 3 instances)
12.2      ( 1 instance)
12.3      ( 5 instances)
12.4      ( 2 instances)
380 12.5      ( 2 instances)
12.6      ( 1 instance)
12.7      ( 1 instance)
12.8      ( 3 instances)
12.9      ( 3 instances)
385 13.0      ( 2 instances)
13.1      ( 6 instances)
13.2      ( 1 instance)
13.3      ( 2 instances)
13.4      ( 1 instance)
390 13.6      ( 1 instance)
13.7      ( 2 instances)
13.9      ( 2 instances)
14.0      ( 2 instances)
14.2      ( 3 instances)
395 14.3      ( 3 instances)
14.4      ( 1 instance)
14.5      ( 4 instances)
14.6      ( 6 instances)
14.7      ( 1 instance)
400 14.8      ( 1 instance)
14.9      ( 1 instance)
15.1      ( 2 instances)
15.2      ( 3 instances)
15.3      ( 1 instance)
405 15.4      ( 3 instances)
15.6      ( 3 instances)
15.7      ( 1 instance)
16.1      ( 2 instances)
16.2      ( 1 instance)
410 16.3      ( 2 instances)
16.6      ( 3 instances)
16.7      ( 1 instance)
16.8      ( 1 instance)
17.0      ( 1 instance)
415 17.2      ( 2 instances)
17.3      ( 3 instances)
17.7      ( 1 instance)
17.8      ( 2 instances)
17.9      ( 1 instance)
420 18.1      ( 1 instance)
18.6      ( 1 instance)
18.7      ( 1 instance)
19.1      ( 1 instance)
20.5      ( 1 instance)
425 20.7      ( 1 instance)
21.0      ( 1 instance)
22.0      ( 1 instance)
23.4      ( 1 instance)
24.4      ( 1 instance)
430 >
    Ta daa!!!
    =====
    === Submission testing ended
    =====

```