

CITS1401 Project 1 marking guide

Semester 2, 2019

There are 22 marks for functionality which are divided into 11 test cases. Each correct test case gets 2 marks.

In addition to any other comments, something like $x/22$ (test) + $x/5$ (style) + $z/3$ (efficiency) is included to summarize the results.

Testing cases were used to test all submitted solutions. Sometimes it was found that there was one mistake in the program that caused all test cases to be failed. If the marker was able to spot the cause and fixed it readily, then they were allowed to do that and your - fixed - program was score whatever it scored from the tests, minus 2 marks, because other students did not had the benefit of marker intervention. However, if the bug was hard to fix or not found, then it was scored as mentioned below.

The code having compilation errors have been allocated zero for test cases.

Test cases:

1. Wrong input file name
Run student's program and enter the name of the file which does not exist.
If program terminates gracefully (without showing any red lines) then assign it correct.
2. Wrong inputs other than the one required.
Run student's program and enter the correct name of the file but give wrong inputs for both options. Test both one by one. If program terminates gracefully (without showing any red lines) then assign it correct.

Run the student's program with testing file "WHR2018Chapter2_reduced.csv" and match the following task outputs.

3. Inputs: min and correlation. This may have different solution due to multiple rows having lowest ranks.
Expected output: 0.4491
4. Inputs: mean and correlation
Expected output: 0.7514
5. Inputs: median and correlation
Expected output: 0.7895
6. Inputs: harmonic_mean and correlation
Expected output: 0.5605
7. Inputs: min and list
Expected output:
New Zealand 0.5834
Malta 0.5819
Netherlands 0.5772
Norway 0.5477
Ireland 0.5441
Thailand 0.5394
Libya 0.5318
United Arab Emirates 0.5272
Iran 0.5181
Indonesia 0.5038
Switzerland 0.5020

Sweden	0.4887	
Denmark	0.4777	
Germany	0.4669	
Hong Kong S.A.R. of China		0.4535
Bahrain	0.4511	
Singapore	0.4508	
Uzbekistan	0.4416	
Vietnam	0.4375	
Myanmar	0.4123	
Sri Lanka	0.4120	
Laos	0.4033	
Australia	0.4011	
Mauritius	0.4005	
United Kingdom	0.3856	
Austria	0.3806	
Belgium	0.3698	
Honduras	0.3676	
Turkmenistan	0.3642	
Palestinian Territories	0.3554	
Pakistan	0.3534	
Luxembourg	0.3528	

and so on (run solution for complete list)

8. Inputs: mean and list

Expected output:

Singapore	0.8567	
Switzerland	0.8313	
Norway	0.8209	
Malta	0.8053	
Netherlands	0.7961	
New Zealand	0.7932	
United Arab Emirates		0.7929
Luxembourg	0.7852	
Ireland	0.7850	
Denmark	0.7738	
Australia	0.7693	
Sweden	0.7648	
Iceland	0.7544	
Finland	0.7508	
Uzbekistan	0.7386	
Bahrain	0.7367	
Germany	0.7278	
Hong Kong S.A.R. of China		0.7270
United Kingdom	0.7224	
Austria	0.7146	
Indonesia	0.7084	
United States	0.7055	
Myanmar	0.7033	

and so on (run the solution for complete list)

9. Inputs: median and list

Expected output:

Singapore	0.9250
Switzerland	0.8934
Norway	0.8756
Sweden	0.8733
Iceland	0.8684

Luxembourg	0.8588
Australia	0.8553
Netherlands	0.8540
Ireland	0.8534
Denmark	0.8502
Bahrain	0.8391
Austria	0.8374
Finland	0.8366
Malta	0.8274
New Zealand	0.8212
Kuwait	0.8191
Belgium	0.8016
Portugal	0.8013
Slovenia	0.7982
United Arab Emirates	0.7972
United States	0.7903
Germany	0.7857
Japan	0.7857
Myanmar	0.7786
Uzbekistan	0.7730

and so on (run the solution for complete list)

10. Inputs: harmonic_mean and list

Expected output:

Singapore	0.7939
Switzerland	0.7917
Norway	0.7882
Malta	0.7852
Netherlands	0.7709
New Zealand	0.7649
United Arab Emirates	0.7576
Ireland	0.7462
Denmark	0.7164
Sweden	0.7118
Australia	0.7028
Luxembourg	0.6955
Bahrain	0.6928
Germany	0.6914
Indonesia	0.6810
Thailand	0.6736
Hong Kong S.A.R. of China	0.6706
United Kingdom	0.6612
Uzbekistan	0.6473
Mauritius	0.6366
Finland	0.6352
Austria	0.6341
Iceland	0.6320
Libya	0.6311
Myanmar	0.6245
United States	0.6140
Belgium	0.6026
Iran	0.5954

and so on (run the solution for complete list)

11. If all above tests are giving correct results then consider this one a correct. This is to appreciate students giving complete working solution.

Style and efficiency:

- As explained in project 1 sheet on LMS

Non submission of Project 1 part 1:

3 marks from the final grade is deducted if not submitted