

FACULTY OF SCIENCE AND TECHNOLOGY

COURSEWORK  
BSC (HONS) SCIENCE; YEAR 1  
TECHNOLOGY; BSC (HONS) COMPUTER  
SCIENCE; YEAR 2

ACADEMIC SEMESTER 3

PRG2214: Functional Programming Principles

Assignment 2 WeChat: cstutorcs

STUDENT NAME 1: Assignment Project Exam Help

STUDENT NAME 2: Email: tutores@163.com

**INSTRUCTIONS TO CANDIDATES**

Answer **ALL** questions in pairs or alone. QQ: 749389476

This assignment will contribute 30% to your final grade.

All answers must be written in this one note page <https://tutorcs.com>

**IMPORTANT NOTES TO CANDIDATES**

Student must remember to click on Turn In button in Microsoft Team

**Assessing SLO:** Use polymorphism and higher-order functions and demonstrate problem solving skill in Functional approach(C3, PLO2)

[This paper contains One questions printed on Three pages]

### Question 1 (30 marks)

You are given the following dataset from <https://github.com/MoH-Malaysia/covid19-public>. Please refer to the attached deaths\_state.csv.



Please write a program to answer the following questions:

1. Which state has the highest deaths due to Covid ?
2. What is the average number of deaths per day for Malaysia in the provided data ?
3. Which state has the lowest death in the provided data ?

The Program should display the answer for all the three questions above.

The description of data is shown in the following:

#### Deaths

1. date: yyyy-mm-dd format; data correct as of 1200hrs on that date
2. state: name of state (present in state file, but not country file)
3. deaths\_new: deaths due to COVID-19 based on **date reported to public**
4. deaths\_bid: deaths due to COVID-19 which were brought-in dead based on **date reported to public** (perfect subset of deaths\_new)
5. deaths\_new\_dod: deaths due to COVID-19 based on **date of death**
6. deaths\_bid\_dod: deaths due to COVID-19 which were brought-in dead based on **date of death** (perfect subset of deaths\_new\_dod)
7. deaths\_pvax: number of partially-vaccinated individuals who died due to COVID-19 based on **date of death** (perfect subset of deaths\_new\_dod), where "partially vaccinated" is defined as receiving at least 1 dose of a 2-dose vaccine at least 1 day prior to testing positive, or receiving the Cansino vaccine between 1-27 days before testing positive.
8. deaths\_fvax: number of fully-vaccinated who died due to COVID-19 based on **date of death** (perfect subset of deaths\_new\_dod), where "fully vaccinated" is defined as receiving the 2nd dose of a 2-dose vaccine at least 14 days prior to testing positive, or receiving the Cansino vaccine at least 28 days before testing positive.
9. deaths\_tat: median days between date of death and date of report for all deaths reported on the day

From <<https://github.com/MoH-Malaysia/covid19-public/tree/main/epidemic>>

# Rubric:

MARGINAL (D)	ADEQUATE ( C )	GOOD(B)	EXCELLENT(A)
D 14% of 30% D- 12% of 30%	C 17% of 30% C- 15 % of 30%	B+ 20% of 30% B- 18% of 30%	A+ 30% of 30% A 25% of 30% A- 21% of 30%
Evidence shows a minimal acceptable understanding of Function concept in Haskell.	 <p>ability to use them to solve problem with some error. Such as : Function Encapsulation Modularity</p>	<p>of Illustrates a good mastery of the Haskell Function API.</p> <p>Able to demonstrate correct use of Haskell Function API, and evidence of proper use High order function.</p> <p>Use polymorphism in the Haskell code where appropriate.</p>	<p>As in good but provides further depth through either:</p> <p>Able to demonstrate ability to compose function to solve problem using Haskell functions with concise and accurate manner.</p> <p>Demonstrated concise, efficient, reusable and modular code.</p>

程序代写代做CS编程辅导

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