

## Week 1 - Pod - Submission

### Question 1

Given the following data

x	2	3	5	6	1	9	10	15
y	1	4	6	4	4	3	20	25

- Calculate the mean, standard deviation, and variance of  $x$
  - Calculate the correlation of  $x$  and  $y$
  - Run a linear model when regressing  $y$  on  $x$ .
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### Question 2\*

Given the following data

x	2	3	5	6	1
y	1	4	6	4	4

- Calculate the mean, standard deviation, and variance of  $x$
  - Calculate the correlation of  $x$  and  $y$
  - Run a linear model when regressing  $y$  on  $x$ .
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### Question 3

- Import in R the `Automobile UK Collision Claims` dataset at
    - Collision Claims or Alternative Link
  - Use the `View` function to view the data
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### Question 4

Run linear regression to regress the `Claim_Count` on the `Severity`. Give the summary of the model.

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### Question 5\*

In this question, we will use the `Automobile Insurance Claims` dataset at the below link:

`Automobile Insurance Claims`

- a. Import the following dataset into Rstudio.
  - b. View the dataset.
  - c. Run linear model to regress `PAID` on `AGE`. Report the summary of this model.
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