AQ9.1: Activity Question 1 - Not Graded

**This assignment will not be graded and is only for practice.**

**Note : This activity is only for practice purpose and it will not be counted towards the Final score**

The given below statements are based on ”Scores” dataset explained in the lecture. State whether the following statements are true or false.

***1 point***

Student A**A** can mentor student B**B** and student B**B** can mentor student C**C** in the same subject.

True

False

***1 point***

Student A**A** can mentor student B**B** and student B**B** can mentor student A**A** in the different subject.

True

False

***1 point***

A cycle can be formed with at least two nodes. (Note: Consider directed graph).

True

False

***1 point***

A cycle of three students can be formed for mentoring the same subject.

True

False

***1 point***

A cycle can exist within a cycle.

True

False

***1 point***

How many maximum numbers of study cycles can be formed between two students for mentoring or by mentored in three subjects? (Note: Consider directed graph).

3

6

9

12

***1 point***

Consider a student can mentor another student irrespective of amount of difference in their marks. With this assumption, maximum how many edges a student can have?

30∗330∗3

29∗329∗3

28∗328∗3

27∗327∗3