

VIETNAM NATIONAL UNIVERSITY, HO CHI MINH CITY
UNIVERSITY OF TECHNOLOGY
FACULTY OF COMPUTER SCIENCE AND ENGINEERING



DISCRETE STRUCTURES FOR COMPUTING (CO1007)

Assignment

Relation - Counting - Probability and Graph

Advisor: Fullname
Students: Fullname of Student 1 - Student 1 ID numbers.
Fullname of Student 2 - Student 2 ID numbers.

HO CHI MINH CITY, SEPTEMBER 2020



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1 Member list & Workload

| No. | Fullname | Student ID | Problems | Percentage of work |
|-----|---------------|------------|--|--------------------|
| 1 | Lưu Quốc Bình | 2033009 | - Exercise 1 Bonus: 1, 2, 3. - Probability: 1, 2, 3. | 30% |
| 2 | Nguyễn Văn B | 19181717 | - Relation & Counting: 4, 5, 6 Bonus: 4, 5, 6. - Graph: 1, 2, 3, Bonus: 1, 2, 3. | 20% |
| 1 | Nguyễn Văn A | 19181716 | - Relation & Counting: 1, 2, 3 Bonus: 1, 2, 3. - Probability: 1, 2, 3. | 30% |
| 1 | Nguyễn Văn A | 19181716 | - Relation & Counting: 1, 2, 3 Bonus: 1, 2, 3. - Probability: 1, 2, 3. | 30% |

2 Relation & Counting

2.1 Problem 1

Write on the report a very detailed introduction to the IVPs Sys. (3) and the formulae of its exact solutions for general a, b, c , and d and initial condition R_0 and J_0 . Then complete Tab. 2 for all possible cases of eigenvalues of general 2×2 matrix A

2.2 Problem 2

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2.3 Bonus exercises

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3 Probability

3.1 Problem 1

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3.2 Problem 2

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3.3 Bonus exercises

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4 Graph

4.1 Problem 1

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4.2 Problem 2

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4.3 Bonus exercises

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References

[1] ...

[2] ...