Комп’ютерний проект з курсу «Дискретна математика та застосування»

2018\_19 н.р

Семестр\_1

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**Тема:**

Побудова всіх транзитивних відношень на множині з n елементів

**Завдання:**

Дано ціле додатне число *n*. Побудувати всі транзитивні відношення на множині з *n*

елементів і підрахувати їхню кількість. Виконати програму для *n*=3 і *n*=4.

**Підготували:**

Галецька Софія

Гапунович Юлія

Шувар Софія

Дата: 09.01.2019

**Реалізація**:

Завдання виконується програмою з модулем transitive\_relations.py

Композиція модуля:

* Функція main() – викликає всі необхідні для реалізації функції та виводить користувачу результат.
* Функція user\_input() – приймає від користувача число та перевіряє чи воно ціле, додатне. Якщо задовольняє умовам – то повертає це число для подальшого використання.
* Функція all\_pairs\_on\_set(n) – приймає число n та повертає всі пари елементів на множині з n елементів.
* Функція all\_relations(list\_of\_pairs) – приймає список з пар усіх елементів та формує новий список з усіх можливих відношень на цій множині.
* Функція is\_transitive(relations) – приймає відношення та повертає його, якщо воно є транзитивним, якщо ні ,то повертає False.
* Функція find\_transitive(relations\_list) – приймає список всіх відношень та фільтрує його, відбираючи лише транзитивні та формуючи з них список, який повертає для подальшого використання.
* Функція find\_amount(transitive\_relations) – приймає список усіх транзитивних відношень на множині з множині з *n* елементів і підраховує їхню кількість, повертаючи довжину прийнятого списку.
* Функція write\_in\_file(n,transitive,amount) – приймає основні вхідні та вихідні дані та записує їх у файл формату txt .

**Приклад реалізації для числа n = 3:**

Please enter an even number: 3

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The amount of transitive relations for 3 elements is: 171

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Here are all transitive relations for 3 elements:

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{(0, 0), (0, 2)}

{(0, 1), (0, 0), (1, 1), (2, 2)}

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{(1, 0), (0, 0), (1, 1)}

{(1, 2), (1, 0), (0, 2)}

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{(0, 1), (1, 2), (0, 0), (2, 2), (0, 2), (1, 1)}

{(2, 0), (0, 0), (0, 2), (2, 2)}

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{(0, 1), (0, 0), (1, 1)}

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{(0, 1), (0, 0), (0, 2), (1, 1), (2, 1)}

{(2, 0), (0, 0), (2, 2), (0, 2), (1, 1)}

{(2, 0), (1, 1), (2, 2)}

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{(2, 0), (0, 0), (1, 0), (1, 1), (2, 1)}

{(2, 0), (0, 0), (1, 1)}

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{(1, 0)}

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{(1, 2), (1, 1)}

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{(1, 2), (0, 2), (2, 2)}

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{(0, 1), (2, 2)}

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{(1, 2)}

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{(0, 1), (0, 0), (2, 2), (1, 0), (1, 1)}

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{(0, 1), (2, 0), (2, 2), (1, 1), (2, 1)}

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{(2, 0), (1, 0), (0, 0), (1, 1)}

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{(0, 1)}

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{(2, 0), (1, 1)}

{(0, 1), (1, 2), (0, 0), (2, 2), (0, 2), (1, 0), (1, 1)}

{(0, 1), (0, 0), (0, 2), (2, 1)}

{(1, 2), (0, 0), (2, 2), (1, 0), (0, 2)}

{(0, 1), (2, 0), (0, 0), (2, 2), (1, 1), (2, 1)}

{(2, 1)}

{(1, 2), (1, 0), (1, 1)}

{(1, 0), (0, 0), (2, 2)}

{(2, 0), (0, 0)}

{(0, 0), (2, 1), (2, 2)}

{(0, 1), (0, 2), (2, 1)}

{(0, 2), (2, 2)}

{(0, 1), (0, 0), (2, 2)}

{(0, 1), (0, 0)}

{(2, 2), (0, 0), (0, 2), (1, 1)}

{(0, 1), (1, 2), (0, 0), (2, 2), (0, 2), (1, 1), (2, 1)}

{(0, 0), (1, 1), (2, 2)}

{(2, 0), (1, 1), (2, 1)}

{(1, 0), (2, 2)}

{(1, 2), (2, 0), (0, 0), (2, 2), (1, 0)}

{(0, 1), (2, 0), (0, 0), (2, 1)}

{(1, 2), (0, 0), (0, 2), (2, 2)}

{(0, 1), (1, 2), (0, 0), (0, 2), (1, 0), (1, 1)}

{(2, 0), (1, 0), (1, 1), (2, 1)}

{(1, 2), (1, 0), (1, 1), (2, 2)}

{(0, 1), (1, 2), (0, 0), (2, 1), (2, 0), (1, 1), (2, 2), (1, 0), (0, 2)}

{(1, 2), (1, 0), (0, 0)}

{(0, 1), (0, 0), (0, 2), (2, 2)}

{(0, 0), (1, 1)}

{(1, 2), (0, 2)}

{(0, 1), (2, 0), (0, 0), (1, 0), (1, 1), (2, 1)}

{(0, 1), (1, 2), (1, 1), (2, 2), (0, 2), (2, 1)}

{(1, 2), (1, 1), (2, 2)}

{(2, 0), (1, 0), (0, 0), (2, 1)}

{(0, 0), (0, 2), (2, 2)}

{(2, 0), (0, 0), (2, 1), (2, 2)}

{(1, 2), (2, 2)}

{(0, 0), (1, 1), (2, 1), (2, 2)}

{(2, 0), (0, 0), (1, 1), (2, 2)}

{}

**Приклад реалізації для числа n = 4:**

Please enter an even number: 4

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The amount of transitive relations for 4 elements is: 3994

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Here are all transitive relations for 4 elements:

{(2, 0), (1, 3), (3, 3), (3, 1), (1, 1)}

{(0, 1), (3, 2), (0, 0), (3, 1), (1, 1)}

{(0, 1), (0, 0), (3, 3), (2, 2), (0, 2)}

{(2, 0), (2, 3), (3, 3), (2, 2), (1, 0), (2, 1)}

{(0, 1), (2, 0), (2, 3), (3, 3), (2, 1)}

{(1, 2), (3, 2), (0, 0), (3, 3), (3, 0), (3, 1), (2, 0), (2, 2), (1, 0)}

{(1, 2), (3, 2), (0, 0), (1, 3), (3, 3), (2, 2), (1, 0), (0, 2)}

{(1, 2), (0, 0), (1, 3), (3, 3), (0, 3), (1, 1)}

{(2, 0), (1, 3), (0, 0), (3, 3), (1, 0), (1, 1)}

{(3, 1)}

{(1, 2), (3, 2), (0, 0), (3, 0), (1, 0), (1, 1)}

{(0, 1), (2, 3), (2, 1), (2, 2)}

{(0, 0), (3, 3), (2, 2), (3, 0), (3, 1), (2, 1)}

{(1, 2), (3, 2), (0, 0)}

{(1, 3), (0, 0), (3, 3), (2, 0), (2, 3), (2, 2), (0, 3), (0, 2)}

{(3, 2), (3, 3), (3, 0), (3, 1), (2, 1), (2, 0), (2, 3), (2, 2)}

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{(0, 1), (0, 0), (3, 3), (0, 3), (1, 1), (2, 1)}

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{(1, 2), (3, 2), (1, 3), (2, 2)}

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