

Затверджую
Завідувач кафедри
прикладної математики і
механіки
ЛДУ БЖД

"__" _____ 20__ р.

МЕТОДИЧНА РОЗРОБКА
ДЛЯ ПРОВЕДЕННЯ ЛАБОРАТОРНОГО ЗАНЯТТЯ
З КУРСАНТАМИ ТА СТУДЕНТАМИ 2 КУРСУ
З ДИСЦИПЛІНИ СИСТЕМНИЙ АНАЛІЗ ТА ТЕОРІЯ
ПРИЙНЯТТЯ РІШЕНЬ

ТЕМА: № 1. Побудова графів в пакеті Maple 13. Алгоритм
Фльорі.

Методична розробка обговорена на засіданні кафедри
Протокол № ____ від _____ 20__ р.

м. Львів

ТЕМА: № 1. Побудова графів у програмі Maple 13. Алгоритм Фльорі.

Мета заняття:

навчальна: ознайомити студентів з основними принципами роботи у пакеті Maple 13, навчити будувати графи, що задані матрицею суміжностей в Maple 13 та знаходити Ейлерів цикл (шлях), використовуючи алгоритм Фльорі.

виховна: виховання свідомого ставлення до вивчення предмету, самостійності, відповідальності та організованості при підготовці до занять.

розвиткова: розвиток логічного та абстрактного мислення, розвиток просторової уяви.

Навчальний час: 2 години.

Місце проведення: згідно з розкладом.

Забезпечення заняття: ПК, МП.

Література:

1. *Махней О.В., Гой Т.П.* (2013). Математичне забезпечення автоматизації прикладних досліджень. Івано-Франківськ: Сімик, 304.

Структурні елементи заняття

- організаційно-вступна частина;
- закріплення матеріалу (видача завдання для самостійного виконання).

Розробила:

доцент кафедри прикладної математики і механіки,
к. ф.-м. наук

Оксана Чмир

Завдання для самостійного виконання.

ЗАВДАННЯ № 1

Неорієнтований граф задано матрицею суміжностей.

Потрібно за допомогою пакету Maple:

- а) побудувати граф, заданий матрицею суміжностей;
- б) знайти степені всіх вершин графа;
- в) побудувати Гамільтонів цикл.

Побудувати Ейлерів цикл (шлях) або довести, що він не існує.

1.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 2 | 1 | 0 | 1 | 1 | 0 | 0 | 1 |
| 3 | 0 | 1 | 0 | 1 | 1 | 0 | 1 |
| 4 | 0 | 1 | 1 | 0 | 1 | 1 | 0 |
| 5 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
| 6 | 1 | 0 | 0 | 1 | 1 | 0 | 1 |
| 7 | 0 | 1 | 1 | 0 | 1 | 1 | 0 |

2.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 |
| 2 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 3 | 1 | 1 | 0 | 0 | 1 | 0 | 1 |
| 4 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 5 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| 6 | 1 | 0 | 0 | 1 | 0 | 0 | 1 |
| 7 | 0 | 1 | 1 | 1 | 0 | 1 | 0 |

3.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| 2 | 0 | 0 | 1 | 0 | 0 | 1 | 1 |
| 3 | 1 | 1 | 0 | 0 | 1 | 0 | 1 |
| 4 | 1 | 0 | 0 | 0 | 1 | 1 | 1 |
| 5 | 0 | 0 | 1 | 1 | 0 | 1 | 0 |
| 6 | 0 | 1 | 0 | 1 | 1 | 0 | 1 |
| 7 | 0 | 1 | 1 | 1 | 0 | 1 | 0 |

4.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| 2 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| 3 | 1 | 0 | 0 | 0 | 1 | 0 | 1 |
| 4 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 5 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| 6 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 7 | 1 | 0 | 1 | 1 | 0 | 1 | 0 |

5.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| 2 | 1 | 0 | 1 | 0 | 0 | 1 | 1 |
| 3 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 4 | 1 | 0 | 0 | 0 | 1 | 1 | 1 |
| 5 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| 6 | 0 | 1 | 0 | 1 | 1 | 0 | 1 |
| 7 | 0 | 1 | 1 | 1 | 0 | 1 | 0 |

6.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 2 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| 3 | 0 | 1 | 0 | 0 | 1 | 1 | 1 |
| 4 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| 5 | 0 | 1 | 1 | 1 | 0 | 1 | 0 |
| 6 | 0 | 0 | 1 | 1 | 1 | 0 | 1 |
| 7 | 1 | 1 | 1 | 0 | 0 | 1 | 0 |

7.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| 2 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
| 3 | 0 | 1 | 0 | 0 | 1 | 1 | 1 |
| 4 | 1 | 1 | 0 | 0 | 1 | 0 | 1 |
| 5 | 1 | 0 | 1 | 1 | 0 | 1 | 0 |
| 6 | 0 | 1 | 1 | 0 | 1 | 0 | 1 |
| 7 | 0 | 1 | 1 | 1 | 0 | 1 | 0 |

8.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| 2 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
| 3 | 0 | 1 | 0 | 0 | 1 | 1 | 1 |
| 4 | 1 | 1 | 0 | 0 | 1 | 0 | 1 |
| 5 | 1 | 0 | 1 | 1 | 0 | 0 | 1 |
| 6 | 1 | 1 | 1 | 0 | 0 | 0 | 1 |
| 7 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |

9.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 |
| 2 | 1 | 0 | 0 | 1 | 0 | 1 | 1 |
| 3 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| 4 | 1 | 1 | 1 | 0 | 0 | 0 | 1 |
| 5 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 6 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| 7 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |

10.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 2 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
| 3 | 0 | 1 | 0 | 0 | 1 | 1 | 1 |
| 4 | 1 | 1 | 0 | 0 | 1 | 0 | 1 |
| 5 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
| 6 | 0 | 1 | 1 | 0 | 1 | 0 | 1 |
| 7 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |

11.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |
| 2 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
| 3 | 1 | 1 | 0 | 0 | 1 | 1 | 1 |
| 4 | 1 | 1 | 0 | 0 | 1 | 0 | 1 |
| 5 | 1 | 0 | 1 | 1 | 0 | 0 | 1 |
| 6 | 1 | 1 | 1 | 0 | 0 | 0 | 1 |
| 7 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |

12.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 |
| 2 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| 3 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| 4 | 1 | 0 | 1 | 0 | 0 | 1 | 1 |
| 5 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 6 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| 7 | 1 | 0 | 1 | 1 | 1 | 0 | 0 |

13.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 |
| 2 | 1 | 0 | 0 | 0 | 1 | 1 | 1 |
| 3 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 4 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5 | 1 | 1 | 1 | 0 | 0 | 1 | 0 |
| 6 | 0 | 1 | 1 | 0 | 1 | 0 | 1 |
| 7 | 0 | 1 | 1 | 1 | 0 | 1 | 0 |

14.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| 2 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
| 3 | 0 | 1 | 0 | 0 | 1 | 1 | 1 |
| 4 | 1 | 1 | 0 | 0 | 1 | 0 | 1 |
| 5 | 1 | 0 | 1 | 1 | 0 | 0 | 1 |
| 6 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| 7 | 0 | 1 | 1 | 1 | 1 | 0 | 0 |

15.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 2 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| 3 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| 4 | 1 | 1 | 1 | 0 | 0 | 0 | 1 |
| 5 | 0 | 1 | 1 | 0 | 0 | 1 | 1 |
| 6 | 0 | 1 | 1 | 0 | 1 | 0 | 1 |
| 7 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |

16.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 |
| 2 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| 3 | 1 | 0 | 0 | 0 | 1 | 1 | 1 |
| 4 | 1 | 1 | 0 | 0 | 1 | 0 | 1 |
| 5 | 1 | 0 | 1 | 1 | 0 | 1 | 0 |
| 6 | 0 | 1 | 1 | 0 | 1 | 0 | 1 |
| 7 | 1 | 0 | 1 | 1 | 0 | 1 | 0 |

17.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 |
| 2 | 1 | 0 | 0 | 1 | 0 | 1 | 1 |
| 3 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| 4 | 1 | 1 | 1 | 0 | 0 | 0 | 1 |
| 5 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 6 | 1 | 1 | 1 | 0 | 0 | 0 | 1 |
| 7 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |

18.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 2 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| 3 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| 4 | 1 | 1 | 1 | 0 | 0 | 0 | 1 |
| 5 | 0 | 1 | 1 | 0 | 0 | 1 | 0 |
| 6 | 0 | 1 | 1 | 0 | 1 | 0 | 1 |
| 7 | 1 | 1 | 1 | 1 | 0 | 1 | 0 |

19.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 2 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| 3 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| 4 | 1 | 1 | 1 | 0 | 1 | 0 | 0 |
| 5 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
| 6 | 0 | 1 | 1 | 0 | 1 | 0 | 1 |
| 7 | 1 | 0 | 1 | 0 | 1 | 1 | 0 |

20.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 2 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| 3 | 0 | 1 | 0 | 0 | 1 | 1 | 1 |
| 4 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 5 | 0 | 1 | 1 | 0 | 0 | 1 | 1 |
| 6 | 0 | 0 | 1 | 1 | 1 | 0 | 1 |
| 7 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |

21.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 |
| 2 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
| 3 | 1 | 1 | 0 | 0 | 0 | 1 | 1 |
| 4 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 5 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 6 | 1 | 1 | 1 | 0 | 0 | 0 | 1 |
| 7 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |

22.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 |
| 2 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| 3 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| 4 | 1 | 0 | 1 | 0 | 0 | 1 | 1 |
| 5 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 6 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| 7 | 1 | 0 | 1 | 1 | 1 | 0 | 0 |

23.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 1 | 0 | 0 | 1 | 0 | 1 | 1 |
| 3 | 1 | 0 | 0 | 1 | 1 | 0 | 1 |
| 4 | 1 | 1 | 1 | 0 | 0 | 0 | 1 |
| 5 | 1 | 0 | 1 | 0 | 0 | 1 | 1 |
| 6 | 1 | 1 | 0 | 0 | 1 | 0 | 1 |
| 7 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |

24.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
| 2 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
| 3 | 1 | 1 | 0 | 1 | 1 | 1 | 1 |
| 4 | 1 | 1 | 1 | 0 | 0 | 0 | 1 |
| 5 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 6 | 1 | 1 | 1 | 0 | 0 | 0 | 1 |
| 7 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |

25.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 2 | 1 | 0 | 1 | 1 | 1 | 1 | 1 |
| 3 | 0 | 1 | 0 | 0 | 1 | 1 | 1 |
| 4 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 5 | 0 | 1 | 1 | 0 | 0 | 1 | 1 |
| 6 | 0 | 1 | 1 | 0 | 1 | 0 | 1 |
| 7 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |

26.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 2 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| 3 | 0 | 1 | 0 | 0 | 1 | 1 | 1 |
| 4 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 5 | 0 | 1 | 1 | 0 | 0 | 1 | 1 |
| 6 | 0 | 0 | 1 | 1 | 1 | 0 | 1 |
| 7 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |

27.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 1 | 0 | 1 | 0 | 0 | 1 | 1 |
| 3 | 1 | 1 | 0 | 1 | 1 | 0 | 0 |
| 4 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| 5 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| 6 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 7 | 1 | 1 | 0 | 1 | 1 | 0 | 0 |

28.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| 2 | 1 | 0 | 1 | 1 | 1 | 1 | 1 |
| 3 | 0 | 1 | 0 | 0 | 1 | 1 | 1 |
| 4 | 1 | 1 | 0 | 0 | 0 | 0 | 1 |
| 5 | 0 | 1 | 1 | 0 | 0 | 1 | 1 |
| 6 | 0 | 1 | 1 | 0 | 1 | 0 | 1 |
| 7 | 0 | 1 | 1 | 1 | 1 | 1 | 0 |

29.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 2 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
| 3 | 0 | 1 | 0 | 0 | 1 | 1 | 1 |
| 4 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 5 | 0 | 0 | 1 | 0 | 0 | 1 | 1 |
| 6 | 1 | 1 | 1 | 0 | 1 | 0 | 1 |
| 7 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |

30.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 |
| 2 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
| 3 | 1 | 1 | 0 | 0 | 0 | 1 | 1 |
| 4 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 5 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 6 | 1 | 1 | 1 | 0 | 0 | 0 | 1 |
| 7 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |

31.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| 2 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
| 3 | 1 | 1 | 0 | 0 | 0 | 1 | 1 |
| 4 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 5 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 6 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| 7 | 0 | 1 | 1 | 1 | 1 | 1 | 0 |

32.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 |
| 2 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| 3 | 0 | 1 | 0 | 0 | 1 | 1 | 1 |
| 4 | 1 | 0 | 0 | 0 | 0 | 1 | 1 |
| 5 | 0 | 1 | 1 | 0 | 0 | 1 | 1 |
| 6 | 1 | 0 | 1 | 1 | 1 | 0 | 1 |
| 7 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |

33.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 |
| 2 | 1 | 0 | 0 | 1 | 0 | 1 | 1 |
| 3 | 1 | 0 | 0 | 1 | 1 | 0 | 1 |
| 4 | 1 | 1 | 1 | 0 | 0 | 0 | 1 |
| 5 | 1 | 0 | 1 | 0 | 0 | 1 | 1 |
| 6 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| 7 | 0 | 1 | 1 | 1 | 1 | 0 | 0 |

34.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| 2 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
| 3 | 0 | 1 | 0 | 1 | 1 | 1 | 1 |
| 4 | 1 | 1 | 1 | 0 | 0 | 0 | 1 |
| 5 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 6 | 1 | 1 | 1 | 0 | 0 | 0 | 1 |
| 7 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |

35.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 |
| 2 | 1 | 0 | 1 | 0 | 0 | 1 | 1 |
| 3 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 4 | 1 | 0 | 0 | 0 | 1 | 1 | 1 |
| 5 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| 6 | 1 | 1 | 0 | 1 | 1 | 0 | 1 |
| 7 | 0 | 1 | 1 | 1 | 0 | 1 | 0 |

36.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 |
| 2 | 1 | 0 | 0 | 1 | 0 | 1 | 1 |
| 3 | 1 | 0 | 0 | 0 | 1 | 1 | 1 |
| 4 | 1 | 1 | 0 | 0 | 1 | 0 | 1 |
| 5 | 0 | 0 | 1 | 1 | 0 | 1 | 0 |
| 6 | 0 | 1 | 1 | 0 | 1 | 0 | 1 |
| 7 | 1 | 1 | 1 | 1 | 0 | 1 | 0 |

37.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 |
| 2 | 1 | 0 | 0 | 1 | 0 | 1 | 1 |
| 3 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 4 | 1 | 1 | 0 | 0 | 0 | 0 | 1 |
| 5 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 6 | 1 | 1 | 1 | 0 | 1 | 0 | 0 |
| 7 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |

38.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| 2 | 1 | 0 | 0 | 1 | 0 | 1 | 1 |
| 3 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |
| 4 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| 5 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 6 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| 7 | 0 | 1 | 1 | 1 | 1 | 0 | 0 |

39.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 |
| 2 | 1 | 0 | 0 | 1 | 0 | 1 | 1 |
| 3 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |
| 4 | 1 | 1 | 1 | 0 | 0 | 0 | 1 |
| 5 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| 6 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| 7 | 0 | 1 | 1 | 1 | 1 | 0 | 0 |

40.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 |
| 2 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| 4 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| 5 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 6 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| 7 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |

41.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| 2 | 0 | 0 | 1 | 1 | 1 | 0 | 1 |
| 3 | 1 | 1 | 0 | 1 | 1 | 0 | 1 |
| 4 | 0 | 1 | 1 | 0 | 1 | 1 | 0 |
| 5 | 0 | 1 | 1 | 1 | 0 | 1 | 1 |
| 6 | 1 | 0 | 0 | 1 | 1 | 0 | 1 |
| 7 | 0 | 1 | 1 | 0 | 1 | 1 | 0 |

42.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 2 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| 3 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| 4 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 5 | 0 | 1 | 1 | 0 | 0 | 1 | 1 |
| 6 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| 7 | 1 | 1 | 0 | 1 | 1 | 0 | 0 |

43.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 1 | 0 | 0 | 1 | 1 |
| 2 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| 3 | 1 | 1 | 0 | 0 | 1 | 1 | 0 |
| 4 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 5 | 0 | 1 | 1 | 0 | 0 | 1 | 1 |
| 6 | 1 | 0 | 1 | 1 | 1 | 0 | 0 |
| 7 | 1 | 1 | 0 | 1 | 1 | 0 | 0 |

44.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 1 | 0 | 0 | 1 | 1 |
| 2 | 1 | 0 | 1 | 0 | 0 | 1 | 1 |
| 3 | 1 | 1 | 0 | 0 | 1 | 1 | 0 |
| 4 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| 5 | 0 | 0 | 1 | 1 | 0 | 1 | 0 |
| 6 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| 7 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |

45.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 |
| 2 | 1 | 0 | 0 | 1 | 0 | 1 | 1 |
| 3 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 4 | 1 | 1 | 0 | 0 | 0 | 0 | 1 |
| 5 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 6 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 7 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |

46.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 1 | 0 | 1 | 0 | 1 | 1 | 1 |
| 3 | 1 | 1 | 0 | 0 | 1 | 1 | 0 |
| 4 | 1 | 0 | 0 | 0 | 1 | 1 | 0 |
| 5 | 1 | 1 | 1 | 1 | 0 | 1 | 1 |
| 6 | 1 | 1 | 1 | 1 | 1 | 0 | 1 |
| 7 | 1 | 1 | 0 | 0 | 1 | 1 | 0 |

47.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 1 | 0 | 0 | 0 | 1 | 1 | 1 |
| 3 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 4 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| 5 | 1 | 1 | 0 | 0 | 0 | 1 | 1 |
| 6 | 1 | 1 | 0 | 1 | 1 | 0 | 0 |
| 7 | 1 | 1 | 1 | 0 | 1 | 0 | 0 |

48.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 |
| 2 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| 3 | 1 | 1 | 0 | 0 | 0 | 1 | 1 |
| 4 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5 | 0 | 1 | 0 | 0 | 0 | 1 | 1 |
| 6 | 0 | 0 | 1 | 0 | 1 | 0 | 1 |
| 7 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |

49.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 |
| 2 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| 3 | 0 | 1 | 0 | 1 | 1 | 1 | 1 |
| 4 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 5 | 1 | 1 | 1 | 0 | 0 | 1 | 0 |
| 6 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| 7 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |

50.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 2 | 1 | 0 | 0 | 1 | 0 | 1 | 1 |
| 3 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| 4 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| 5 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 6 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| 7 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |

51.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 2 | 1 | 0 | 1 | 0 | 1 | 1 | 0 |
| 3 | 0 | 1 | 0 | 0 | 1 | 1 | 1 |
| 4 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| 5 | 0 | 1 | 1 | 1 | 0 | 1 | 0 |
| 6 | 0 | 1 | 1 | 1 | 1 | 0 | 0 |
| 7 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |

52.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| 3 | 1 | 1 | 0 | 0 | 1 | 0 | 1 |
| 4 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5 | 1 | 1 | 1 | 0 | 0 | 1 | 1 |
| 6 | 1 | 0 | 0 | 0 | 1 | 0 | 1 |
| 7 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |

53.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| 3 | 0 | 1 | 0 | 0 | 1 | 1 | 1 |
| 4 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 5 | 0 | 0 | 1 | 1 | 0 | 1 | 0 |
| 6 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| 7 | 1 | 0 | 1 | 1 | 0 | 0 | 0 |

54.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 |
| 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| 3 | 0 | 1 | 0 | 0 | 1 | 1 | 1 |
| 4 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 5 | 0 | 0 | 1 | 1 | 0 | 1 | 0 |
| 6 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| 7 | 1 | 0 | 1 | 1 | 0 | 1 | 0 |

55.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 |
| 2 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| 3 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |
| 4 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| 5 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 6 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| 7 | 1 | 0 | 1 | 1 | 1 | 0 | 0 |

56.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 |
| 2 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| 3 | 1 | 1 | 0 | 0 | 0 | 1 | 1 |
| 4 | 1 | 0 | 0 | 0 | 1 | 1 | 0 |
| 5 | 0 | 1 | 0 | 1 | 0 | 1 | 0 |
| 6 | 0 | 0 | 1 | 1 | 1 | 0 | 1 |
| 7 | 1 | 1 | 1 | 0 | 0 | 1 | 0 |

57.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 |
| 2 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| 3 | 0 | 1 | 0 | 0 | 1 | 1 | 1 |
| 4 | 1 | 0 | 0 | 0 | 1 | 1 | 1 |
| 5 | 1 | 1 | 1 | 1 | 0 | 1 | 0 |
| 6 | 1 | 0 | 1 | 1 | 1 | 0 | 0 |
| 7 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |

58.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 1 | 0 | 0 | 1 | 1 |
| 2 | 1 | 0 | 1 | 0 | 1 | 1 | 0 |
| 3 | 1 | 1 | 0 | 0 | 1 | 1 | 1 |
| 4 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 5 | 0 | 1 | 1 | 0 | 0 | 1 | 1 |
| 6 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| 7 | 1 | 0 | 1 | 1 | 1 | 0 | 0 |

59.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 1 | 0 | 1 | 0 | 1 | 1 | 1 |
| 3 | 1 | 1 | 0 | 0 | 1 | 0 | 1 |
| 4 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5 | 1 | 1 | 1 | 0 | 0 | 1 | 1 |
| 6 | 1 | 1 | 0 | 0 | 1 | 0 | 1 |
| 7 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |

60.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 |
| 2 | 1 | 0 | 0 | 1 | 0 | 1 | 1 |
| 3 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |
| 4 | 1 | 1 | 1 | 0 | 0 | 0 | 1 |
| 5 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 6 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| 7 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |

61.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 1 | 0 | 1 | 0 | 1 |
| 2 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| 3 | 1 | 1 | 0 | 1 | 1 | 1 | 1 |
| 4 | 0 | 0 | 1 | 0 | 0 | 1 | 1 |
| 5 | 1 | 1 | 1 | 0 | 0 | 1 | 1 |
| 6 | 0 | 0 | 1 | 1 | 1 | 0 | 1 |
| 7 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |

62.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 1 | 0 | 1 | 1 | 1 | 1 | 1 |
| 3 | 1 | 1 | 0 | 0 | 1 | 1 | 0 |
| 4 | 1 | 1 | 0 | 0 | 1 | 1 | 0 |
| 5 | 1 | 1 | 1 | 1 | 0 | 1 | 1 |
| 6 | 1 | 1 | 1 | 1 | 1 | 0 | 1 |
| 7 | 1 | 1 | 0 | 0 | 1 | 1 | 0 |

63.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 |
| 2 | 1 | 0 | 1 | 1 | 1 | 1 | 1 |
| 3 | 0 | 1 | 0 | 0 | 1 | 1 | 0 |
| 4 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 5 | 1 | 1 | 1 | 0 | 0 | 0 | 1 |
| 6 | 1 | 1 | 1 | 1 | 0 | 0 | 1 |
| 7 | 1 | 1 | 0 | 0 | 1 | 1 | 0 |

64.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 2 | 0 | 0 | 1 | 1 | 0 | 1 | 1 |
| 3 | 0 | 1 | 0 | 0 | 1 | 1 | 0 |
| 4 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 5 | 1 | 0 | 1 | 0 | 0 | 1 | 1 |
| 6 | 1 | 1 | 1 | 1 | 1 | 0 | 1 |
| 7 | 1 | 1 | 0 | 0 | 1 | 1 | 0 |

65.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 |
| 2 | 1 | 0 | 1 | 1 | 1 | 1 | 1 |
| 3 | 1 | 1 | 0 | 0 | 1 | 1 | 0 |
| 4 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 5 | 1 | 1 | 1 | 0 | 0 | 1 | 1 |
| 6 | 1 | 1 | 1 | 1 | 1 | 0 | 1 |
| 7 | 1 | 1 | 0 | 0 | 1 | 1 | 0 |

66.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 |
| 2 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| 3 | 1 | 1 | 0 | 0 | 0 | 1 | 1 |
| 4 | 1 | 0 | 0 | 0 | 1 | 1 | 1 |
| 5 | 0 | 1 | 0 | 1 | 0 | 1 | 1 |
| 6 | 0 | 0 | 1 | 1 | 1 | 0 | 1 |
| 7 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |

67.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| 2 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| 3 | 1 | 1 | 0 | 0 | 0 | 1 | 1 |
| 4 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 5 | 0 | 1 | 0 | 0 | 0 | 1 | 1 |
| 6 | 0 | 0 | 1 | 1 | 1 | 0 | 1 |
| 7 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |

68.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| 3 | 1 | 1 | 0 | 0 | 0 | 1 | 1 |
| 4 | 1 | 0 | 0 | 0 | 1 | 1 | 1 |
| 5 | 1 | 1 | 0 | 1 | 0 | 1 | 0 |
| 6 | 1 | 0 | 1 | 1 | 1 | 0 | 0 |
| 7 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |

69.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 0 | 1 | 1 | 0 | 1 |
| 2 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| 3 | 0 | 1 | 0 | 1 | 1 | 1 | 1 |
| 4 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| 5 | 1 | 1 | 1 | 0 | 0 | 1 | 0 |
| 6 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| 7 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |

70.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 2 | 1 | 0 | 0 | 1 | 0 | 1 | 1 |
| 3 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| 4 | 0 | 1 | 1 | 0 | 1 | 1 | 0 |
| 5 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| 6 | 0 | 1 | 1 | 1 | 0 | 0 | 1 |
| 7 | 1 | 1 | 1 | 0 | 0 | 1 | 0 |