

Вычисление числа циклов по матрице смежности

По заданной матрице смежности определить число циклов длины 3 и 4 в графе и записать матрицу инцидентности.

Задача G-17.1.

2

0	1	0	0	1	0	0	0	0
1	0	1	1	1	1	0	0	0
0	1	0	0	1	1	0	0	0
0	1	0	0	1	0	0	1	0
1	1	1	1	0	0	1	1	1
0	1	1	0	0	0	0	1	0
0	0	0	0	1	0	0	1	0
0	0	0	1	1	1	1	0	1
0	0	0	0	1	0	0	1	0

Задача G-17.2.

2

0	0	0	1	1	0	0	0	0
0	0	1	1	1	1	0	0	0
0	1	0	0	1	0	0	0	0
1	1	0	0	1	0	0	1	0
1	1	1	1	0	0	1	1	1
0	1	0	0	0	0	0	1	1
0	0	0	0	1	0	0	1	0
0	0	0	1	1	1	1	0	1
0	0	0	0	1	1	0	1	0

Задача G-17.3.

2

0	1	0	0	1	0	0	0	0
1	0	0	1	1	1	0	0	0
0	0	0	0	1	1	0	0	0
0	1	0	0	0	0	1	1	0
1	1	1	0	0	0	1	1	1
0	1	1	0	0	0	0	1	1
0	0	0	1	1	0	0	1	0
0	0	0	1	1	1	1	0	1
0	0	0	0	1	1	0	1	0

Задача G-17.4.

2

0	0	0	1	1	0	0	0	0
0	0	1	1	0	1	0	0	0
0	1	0	0	1	1	0	0	0
1	1	0	0	1	0	0	1	0
1	0	1	1	0	1	1	1	1
0	1	1	0	1	0	0	1	0
0	0	0	0	1	0	0	1	0
0	0	0	1	1	1	1	0	1
0	0	0	0	1	0	0	1	0

Задача G-17.5.

2

0	0	0	1	1	0	0	0	0
0	0	0	1	1	1	0	0	0
0	0	0	0	1	1	0	0	0
1	1	0	0	1	0	0	1	0
1	1	1	1	0	1	1	1	1
0	1	1	0	1	0	0	1	0
0	0	0	0	1	0	0	1	0
0	0	0	1	1	1	1	0	1
0	0	0	0	1	0	0	1	0

Задача G-17.6.

2

0	0	0	1	1	0	0	0	0
0	0	0	1	1	1	0	0	0
0	0	0	0	1	1	0	0	0
1	1	0	0	0	0	1	1	0
1	1	1	0	0	1	1	1	1
0	1	1	0	1	0	0	1	0
0	0	0	1	1	0	0	1	0
0	0	0	1	1	1	1	0	1
0	0	0	0	1	0	0	1	0

Задача G-17.7.

2

0	1	0	0	1	0	0	0	0
1	0	1	1	1	1	0	0	0
0	1	0	0	1	0	0	0	0
0	1	0	0	0	0	1	1	0
1	1	1	0	0	0	1	1	1
0	1	0	0	0	0	0	1	1
0	0	0	1	1	0	0	1	0
0	0	0	1	1	1	1	0	1
0	0	0	0	1	1	0	1	0

Задача G-17.8.

2

0	1	0	0	1	0	0	0	0
1	0	1	1	1	1	0	0	0
0	1	0	0	1	1	0	0	0
0	1	0	0	1	0	1	1	0
1	1	1	1	0	0	1	1	1
0	1	1	0	0	0	0	1	1
0	0	0	1	1	0	0	0	0
0	0	0	1	1	1	0	0	0
0	0	0	0	1	1	0	0	0

Задача G-17.9.

2

0	1	0	1	1	0	0	0	0
1	0	1	1	1	1	0	0	0
0	1	0	0	1	1	0	0	0
1	1	0	0	0	0	1	1	0
1	1	1	0	0	0	1	0	1
0	1	1	0	0	0	0	1	1
0	0	0	1	1	0	0	0	0
0	0	0	1	0	1	0	0	1
0	0	0	0	1	1	0	1	0

Задача G-17.10.

2

0	1	0	0	1	0	0	0	0
1	0	1	1	0	1	0	0	0
0	1	0	0	1	1	0	0	0
0	1	0	0	1	0	0	1	0
1	0	1	1	0	1	1	0	1
0	1	1	0	1	0	0	1	1
0	0	0	0	1	0	0	1	0
0	0	0	1	0	1	1	0	1
0	0	0	0	1	1	0	1	0

Задача G-17.11.

2

0	1	0	1	1	0	0	0	0
1	0	0	1	0	1	0	0	0
0	0	0	0	1	1	0	0	0
1	1	0	0	0	0	1	1	0
1	0	1	0	0	0	1	1	1
0	1	1	0	0	0	0	1	1
0	0	0	1	1	0	0	1	0
0	0	0	1	1	1	1	0	1
0	0	0	0	1	1	0	1	0

Задача G-17.12.

2

0	1	0	1	1	0	0	0	0
1	0	1	1	1	1	0	0	0
0	1	0	0	1	1	0	0	0
1	1	0	0	0	0	1	1	0
1	1	1	0	0	0	1	1	1
0	1	1	0	0	0	0	1	1
0	0	0	1	1	0	0	0	0
0	0	0	1	1	1	0	0	0
0	0	0	0	1	1	0	0	0

Задача G-17.13.

2

0	1	0	1	1	0	0	0	0
1	0	1	1	1	1	0	0	0
0	1	0	0	1	1	0	0	0
1	1	0	0	0	0	1	1	0
1	1	1	0	0	0	1	1	1
0	1	1	0	0	0	0	1	0
0	0	0	1	1	0	0	0	0
0	0	0	1	1	1	0	0	1
0	0	0	0	1	0	0	1	0

Задача G-17.14.

2

0	1	0	0	1	0	0	0	0
1	0	1	1	0	1	0	0	0
0	1	0	0	1	1	0	0	0
0	1	0	0	1	0	0	1	0
1	0	1	1	0	1	1	0	1
0	1	1	0	1	0	0	1	1
0	0	0	0	1	0	0	1	0
0	0	0	1	0	1	1	0	1
0	0	0	0	1	1	0	1	0

Задача G-17.15.

2

0	0	0	1	1	0	0	0	0
0	0	0	1	1	1	0	0	0
0	0	0	0	1	1	0	0	0
1	1	0	0	0	0	1	1	0
1	1	1	0	0	0	1	1	1
0	1	1	0	0	0	0	1	1
0	0	0	1	1	0	0	1	0
0	0	0	1	1	1	1	0	1
0	0	0	0	1	1	0	1	0

Задача G-17.16.

2

0	1	0	0	1	0	0	0	0
1	0	1	1	1	1	0	0	0
0	1	0	0	1	1	0	0	0
0	1	0	0	0	0	1	1	0
1	1	1	0	0	0	1	1	1
0	1	1	0	0	0	0	1	0
0	0	0	1	1	0	0	1	0
0	0	0	1	1	1	1	0	1
0	0	0	0	1	0	0	1	0

Задача G-17.17.

2

0	0	0	1	1	0	0	0	0
0	0	1	1	0	1	0	0	0
0	1	0	0	1	1	0	0	0
1	1	0	0	1	0	1	1	0
1	0	1	1	0	1	1	0	1
0	1	1	0	1	0	0	1	1
0	0	0	1	1	0	0	0	0
0	0	0	1	0	1	0	0	1
0	0	0	0	1	1	0	1	0

Задача G-17.18.

2

0	0	0	1	1	0	0	0	0
0	0	1	1	1	1	0	0	0
0	1	0	0	1	1	0	0	0
1	1	0	0	1	0	1	1	0
1	1	1	1	0	0	1	1	1
0	1	1	0	0	0	0	1	0
0	0	0	1	1	0	0	0	0
0	0	0	1	1	1	0	0	1
0	0	0	0	1	0	0	1	0

Задача G-17.19.

2

0	1	0	1	1	0	0	0	0
1	0	1	1	0	1	0	0	0
0	1	0	0	1	0	0	0	0
1	1	0	0	1	0	1	1	0
1	0	1	1	0	1	1	0	1
0	1	0	0	1	0	0	1	1
0	0	0	1	1	0	0	0	0
0	0	0	1	0	1	0	0	1
0	0	0	0	1	1	0	1	0

Задача G-17.20.

2

0	0	0	1	1	0	0	0	0
0	0	1	1	0	1	0	0	0
0	1	0	0	1	1	0	0	0
1	1	0	0	1	0	0	1	0
1	0	1	1	0	1	1	1	1
0	1	1	0	1	0	0	1	0
0	0	0	0	1	0	0	1	0
0	0	0	1	1	1	1	0	1
0	0	0	0	1	0	0	1	0

Задача G-17.21.

2

0	1	0	0	1	0	0	0	0
1	0	1	1	0	1	0	0	0
0	1	0	0	1	1	0	0	0
0	1	0	0	1	0	0	1	0
1	0	1	1	0	1	1	1	1
0	1	1	0	1	0	0	1	1
0	0	0	0	1	0	0	1	0
0	0	0	1	1	1	1	0	0
0	0	0	0	1	1	0	0	0

Задача G-17.22.

2

0	0	0	1	1	0	0	0	0
0	0	0	1	1	1	0	0	0
0	0	0	0	1	1	0	0	0
1	1	0	0	1	0	1	1	0
1	1	1	1	0	1	1	0	1
0	1	1	0	1	0	0	1	0
0	0	0	1	1	0	0	1	0
0	0	0	1	0	1	1	0	1
0	0	0	0	1	0	0	1	0

Задача G-17.23.

2

0	0	0	1	1	0	0	0	0
0	0	1	1	0	1	0	0	0
0	1	0	0	1	1	0	0	0
1	1	0	0	1	0	0	1	0
1	0	1	1	0	1	1	1	1
0	1	1	0	1	0	0	1	0
0	0	0	0	1	0	0	1	0
0	0	0	1	1	1	1	0	1
0	0	0	0	1	0	0	1	0

Задача G-17.24.

2

0	1	0	0	1	0	0	0	0
1	0	1	1	1	1	0	0	0
0	1	0	0	1	0	0	0	0
0	1	0	0	1	0	1	1	0
1	1	1	1	0	1	1	1	1
0	1	0	0	1	0	0	1	0
0	0	0	1	1	0	0	0	0
0	0	0	1	1	1	0	0	1
0	0	0	0	1	0	0	1	0

Задача G-17.25.

2

0	1	0	1	1	0	0	0	0
1	0	1	1	0	1	0	0	0
0	1	0	0	1	0	0	0	0
1	1	0	0	1	0	1	1	0
1	0	1	1	0	1	1	0	1
0	1	0	0	1	0	0	1	1
0	0	0	1	1	0	0	1	0
0	0	0	1	0	1	1	0	0
0	0	0	0	1	1	0	0	0

Задача G-17.26.

2

0	1	0	1	1	0	0	0	0
1	0	0	1	0	1	0	0	0
0	0	0	0	1	1	0	0	0
1	1	0	0	1	0	1	1	0
1	0	1	1	0	1	1	0	1
0	1	1	0	1	0	0	1	0
0	0	0	1	1	0	0	1	0
0	0	0	1	0	1	1	0	1
0	0	0	0	1	0	0	1	0

Задача G-17.27.

2

0	0	0	1	1	0	0	0	0
0	0	1	1	0	1	0	0	0
0	1	0	0	1	1	0	0	0
1	1	0	0	1	0	0	1	0
1	0	1	1	0	1	1	0	1
0	1	1	0	1	0	0	1	1
0	0	0	0	1	0	0	1	0
0	0	0	1	0	1	1	0	1
0	0	0	0	1	1	0	1	0

Задача G-17.28.

2

0	0	0	1	1	0	0	0	0
0	0	1	1	0	1	0	0	0
0	1	0	0	1	1	0	0	0
1	1	0	0	1	0	1	1	0
1	0	1	1	0	1	1	0	1
0	1	1	0	1	0	0	1	1
0	0	0	1	1	0	0	1	0
0	0	0	1	0	1	1	0	0
0	0	0	0	1	1	0	0	0

Задача G-17.29.

2

0	0	0	1	1	0	0	0	0
0	0	1	1	1	1	0	0	0
0	1	0	0	1	0	0	0	0
1	1	0	0	0	0	1	1	0
1	1	1	0	0	0	1	1	1
0	1	0	0	0	0	0	1	1
0	0	0	1	1	0	0	1	0
0	0	0	1	1	1	1	0	1
0	0	0	0	1	1	0	1	0

Задача G-17.30.

2

0	1	0	1	1	0	0	0	0
1	0	1	1	1	1	0	0	0
0	1	0	0	1	0	0	0	0
1	1	0	0	0	0	0	1	0
1	1	1	0	0	1	1	1	1
0	1	0	0	1	0	0	1	1
0	0	0	0	1	0	0	1	0
0	0	0	1	1	1	1	0	0
0	0	0	0	1	1	0	0	0

G-17 Ответы.**Вычисление числа циклов по матрице смежности**

12.04.2013

1	7	42
2	7	42
3	5	30
4	7	42
5	8	48
6	6	36
7	6	36
8	6	36
9	5	30
10	4	24
11	5	30
12	4	24
13	5	30
14	4	24
15	4	24
16	6	36
17	6	36
18	7	42
19	5	30
20	7	42
21	6	36
22	6	36
23	7	42
24	8	48
25	5	30
26	5	30
27	5	30
28	6	36
29	5	30
30	7	42

G-17 файл o17r2A