

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.

3

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	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-17.2.

3

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	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-17.3.

3

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-17.4.

3

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	0	1	0
1	1	1	0	0	0	1	1	1
0	1	1	0	0	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-17.5.

3

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-17.6.

3

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-17.7.

3

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-17.8.

3

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	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-17.9.

3

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-17.10.

3

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	0	1	1	1
0	1	1	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-17.11.

3

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-17.12.

3

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-17.13.

3

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	1	1	1	1
0	1	1	0	1	0	0	1	1
0	0	0	1	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-17.16.

3

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	0	1	0
1	1	1	1	0	1	1	0	1
0	1	0	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-17.19.

3

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	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-17.22.

3

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	1	0	1	1	0
1	1	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-17.14.

3

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	1	1	0
1	1	1	1	0	1	1	0	1
0	1	0	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-17.17.

3

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	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-17.20.

3

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	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-17.23.

3

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	1	1
0	1	1	0	1	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-17.15.

3

0	1	0	1	1	0	0	0	0
1	0	0	1	1	1	0	0	0
0	0	0	0	1	1	0	0	0
1	1	0	0	0	0	0	1	0
1	1	1	0	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-17.18.

3

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-17.21.

3

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

Задача G-17.24.

3

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	1	1	1	1
0	1	1	0	1	0	0	1	1
0	0	0	1	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-17.25.

3

000110000
001101000
010011000
110010010
101101111
011010010
000010010
000111101
000010010

Задача G-17.26.

3

010010000
101111000
010011000
010000110
111000111
011000010
000110010
000111101
000010010

Задача G-17.27.

3

010110000
101111000
010011000
110000110
111000111
011000011
000110000
000111000
000011000

Задача G-17.28.

3

000110000
001111000
010010000
110000110
111000111
010000011
000110010
000111101
000011010

Задача G-17.29.

3

000110000
001111000
010010000
110000110
111000111
010000011
000110010
000111101
000011010

Задача G-17.30.

3

000110000
000111000
000011000
110010110
111101101
011010011
000110010
000101100
000011000

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

12.04.2013

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

G-17 файл о17г3А