

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.

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

Задача G-17.2.

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

Задача G-17.3.

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

Задача G-17.4.

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

Задача G-17.5.

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

Задача G-17.6.

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

Задача G-17.7.

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

Задача G-17.8.

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

Задача G-17.9.

0	0	0	1	1	0	0	0	0
0	0	1	1	1	1	0	0	0
0	1	0	0	0	0	0	0	0
1	1	0	0	1	0	0	1	0
1	1	0	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-17.10.

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-17.11.

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	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-17.12.

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-17.13.

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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-17.14.

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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	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-17.15.

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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-17.16.

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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-17.17.

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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	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-17.18.

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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-17.19.

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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-17.20.

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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-17.21.

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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-17.22.

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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-17.23.

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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-17.24.

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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-17.25.

/

000110000
001101000
010011000
110010010
101101111
011010011
000010010
000111100
000011000

Задача G-17.26.

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010010000
101111000
010011000
010010110
111100111
011000010
000110000
000111001
000010010

Задача G-17.27.

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010110000
101101000
010010000
110010110
101101101
010010010
000110010
000101101
000010010

Задача G-17.28.

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010110000
101101000
010010000
110010110
101101111
010010011
000110000
000111000
000011000

Задача G-17.29.

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000110000
001111000
010010000
110010110
111100111
010000011
000110000
000111001
000011010

Задача G-17.30.

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010010000
100111000
000011000
010000110
111001111
011010011
000110010
000111100
000011000

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

12.04.2013

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

G-17 файл o17r1A