

All distinct 0-1 matrices of C5

12 of them, $12 = 5! / |\text{aut}(C5)| = 120/10$
 10-bit top-bottom left-right encodings of upper triangle
 lexicographically minimal 0011011100

01100		01100	
10010	$\begin{matrix} 2^0 & & \\ & 2 & 1 \end{matrix}$	10001	$\begin{matrix} 2^0 & & \\ & 2 & 1 \end{matrix}$
10001	$\begin{matrix} & & 4 & 3 \end{matrix}$	10010	
01001		00101	$\begin{matrix} & & & 3 & 4 \end{matrix}$
00110	1100100011	01010	
00110		00110	
00101	$\begin{matrix} 3^0 & & \\ & 3 & 2 \end{matrix}$	00011	$\begin{matrix} 3^0 & & \\ & 3 & 2 \end{matrix}$
11000	$\begin{matrix} & & 4 & 1 \end{matrix}$	10001	
10001		11000	$\begin{matrix} & & & 1 & 4 \end{matrix}$
01010	0111000101	01100	
00011		00011	
00110	$\begin{matrix} 4^0 & & \\ & 4 & 3 \end{matrix}$	00101	$\begin{matrix} 4^0 & & \\ & 4 & 3 \end{matrix}$
01001	$\begin{matrix} & & 2 & 1 \end{matrix}$	01010	$\begin{matrix} & & & 1 & 2 \end{matrix}$
11000		10100	
10100	0011101010	11000	0011011100 minlex
01010		01010	
10100	$\begin{matrix} 3^0 & & \\ & 3 & 1 \end{matrix}$	10001	$\begin{matrix} 3^0 & & \\ & 3 & 1 \end{matrix}$
01001	$\begin{matrix} & & 4 & 2 \end{matrix}$	00011	
10001		10100	$\begin{matrix} & & & 2 & 4 \end{matrix}$
00110	1011000011	01100	
00101		00101	
00110	$\begin{matrix} 4^0 & & \\ & 4 & 2 \end{matrix}$	00011	$\begin{matrix} 4^0 & & \\ & 4 & 2 \end{matrix}$
11000	$\begin{matrix} & & 3 & 1 \end{matrix}$	10010	
01001		01100	$\begin{matrix} & & & 1 & 3 \end{matrix}$
10010		11000	
01001		01001	
10100	$\begin{matrix} 4^0 & & \\ & 4 & 1 \end{matrix}$	10010	$\begin{matrix} 4^0 & & \\ & 4 & 1 \end{matrix}$
01010	$\begin{matrix} & & 3 & 2 \end{matrix}$	00011	
00101		01100	$\begin{matrix} & & & 2 & 3 \end{matrix}$
10010		10100	

IpD?GUbV?

groupsize=8; e=16; n=10; triang=4

Graph 1, order 10.

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0110000010
1000010001
1001000010
0010100001
0001000101
0100001001
0000010110
0000101010
1010001100
0101110000

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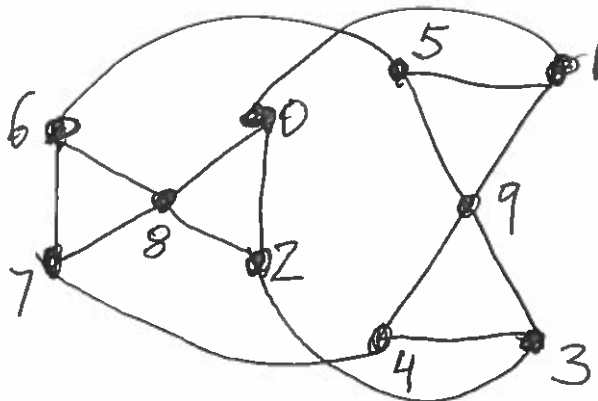
0 : 1 2 8;
1 : 0 5 9;
2 : 0 3 8;
3 : 2 4 9;
4 : 3 7 9;
5 : 1 6 9;
6 : 5 7 8;
7 : 4 6 8;
8 : 0 2 6 7;
9 : 1 3 4 5;

```

```

(0 1) (2 5) (3 6) (4 7) (8 9)
(0 2) (1 3) (4 5) (6 7)
2 orbits; grpsize=8; 2 gens
0:7 (8); 8 9 (2);

```



T 4
 aut 8
 2 orbits

IqKaK?X@w

groupsize=4; e=16; n=10; triang=3

Graph 2, order 10.

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0110000100
1001001000
1000110000
0100100010
0011000010
0010001001
0100010001
1000000011
0001100101
0000011110

```

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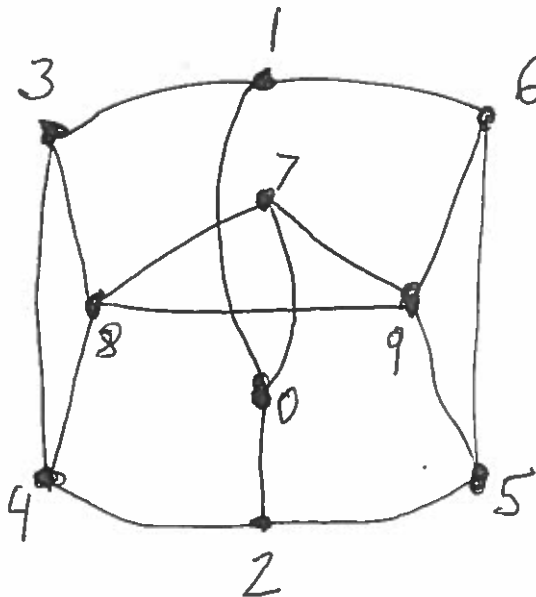
0 : 1 2 7;
1 : 0 3 6;
2 : 0 4 5;
3 : 1 4 8;
4 : 2 3 8;
5 : 2 6 9;
6 : 1 5 9;
7 : 0 8 9;
8 : 3 4 7 9;
9 : 5 6 7 8;

```

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(1 2) (3 4) (5 6)
(1 2) (3 5) (4 6) (8 9)
5 orbits; grpsize=4; 2 gens
0; 1 2 (2); 3:6 (4); 7; 8 9 (2);

```



T 3
 aut 4
 5 orbits