

# The Conjugacy Classes of $S_7$ Subgroups

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## 1 Notes

The subgroups of  $S_k$  can be broken into conjugacy classes, just as the elements of  $S_k$  can be broken into conjugacy classes. The following is a list containing one representative of each conjugacy class of subgroups. For example,  $S_7$  has 21 subgroups consisting of the identity element,  $I$ , and a single two-cycle. We list only one of these,  $\{I, (5,6)\}$ .

The subgroups are presented in cycle form, using the numbers 0, 1, 2, 3, 4, 5, and 6.

I'm not 100% confident in the software that generated these representatives, so take care when using this data.

I don't remember why the last subgroup,  $S_7$  itself, is printed one permutation per line. Hey, it's raw data folks!

```
*****BEGIN FGroupSet - Size=1 *****
I
*****BEGIN FGroupSet - Size=3 *****
I, (5,6)
I, (3,4)(5,6)
I, (1,2)(3,4)(5,6)
*****BEGIN FGroupSet - Size=2 *****
I, (4,5,6), (4,6,5)
I, (1,2,3)(4,5,6), (1,3,2)(4,6,5)
*****BEGIN FGroupSet - Size=7 *****
I, (5,6), (3,4), (3,4)(5,6)
I, (5,6), (1,2)(3,4), (1,2)(3,4)(5,6)
I, (3,4)(5,6), (3,5)(4,6), (3,6)(4,5)
I, (3,4)(5,6), (1,2)(5,6), (1,2)(3,4)
I, (3,4)(5,6), (1,2)(3,5)(4,6), (1,2)(3,6)(4,5)
I, (3,4,5,6), (3,5)(4,6), (3,6,5,4)
I, (3,5)(4,6), (1,2)(3,4,5,6), (1,2)(3,6,5,4)
*****BEGIN FGroupSet - Size=1 *****
I, (2,3,4,5,6), (2,4,6,3,5), (2,5,3,6,4), (2,6,5,4,3)
*****BEGIN FGroupSet - Size=8 *****
I, (5,6), (4,5), (4,5,6), (4,6,5), (4,6)
I, (4,5,6), (4,6,5), (2,3), (2,3)(4,5,6), (2,3)(4,6,5)
I, (4,5,6), (4,6,5), (0,1)(2,3), (0,1)(2,3)(4,5,6), (0,1)(2,3)(4,6,5)
I, (3,4)(5,6), (2,3)(5,6), (2,3,4), (2,4,3), (2,4)(5,6)
I, (3,4)(5,6), (1,3)(2,5), (1,3,4)(2,5,6), (1,4,3)(2,6,5), (1,4)(2,6)
I, (1,2)(3,4)(5,6), (1,3)(2,5)(4,6), (1,4,5)(2,6,3), (1,5,4)(2,3,6), (1,6)(2,4)(3,5)
I, (1,2)(3,4)(5,6), (0,1)(3,4)(5,6), (0,1,2), (0,2,1), (0,2)(3,4)(5,6)
I, (1,2,3,4,5,6), (1,3,5)(2,4,6), (1,4)(2,5)(3,6), (1,5,3)(2,6,4), (1,6,5,4,3,2)
*****BEGIN FGroupSet - Size=1 *****
I, (0,1,2,3,4,5,6), (0,2,4,6,1,3,5), (0,3,6,2,5,1,4), (0,4,1,5,2,6,3),
(0,5,3,1,6,4,2), (0,6,5,4,3,2,1)
*****BEGIN FGroupSet - Size=7 *****
```

I, (5,6), (3,4), (3,4)(5,6), (3,5)(4,6), (3,5,4,6), (3,6,4,5), (3,6)(4,5)

I, (5,6), (3,4), (3,4)(5,6), (1,2), (1,2)(5,6), (1,2)(3,4), (1,2)(3,4)(5,6)

I, (5,6), (3,4), (3,4)(5,6), (1,2)(3,5)(4,6), (1,2)(3,5,4,6), (1,2)(3,6,4,5),  
(1,2)(3,6)(4,5)

I, (5,6), (1,2)(3,4), (1,2)(3,4)(5,6), (1,3)(2,4), (1,3)(2,4)(5,6), (1,4)(2,3),  
(1,4)(2,3)(5,6)

I, (5,6), (1,2,3,4), (1,2,3,4)(5,6), (1,3)(2,4), (1,3)(2,4)(5,6), (1,4,3,2),  
(1,4,3,2)(5,6)

I, (3,4)(5,6), (3,5)(4,6), (3,6)(4,5), (1,2)(4,5), (1,2)(3,4,6,5), (1,2)(3,5,6,4),  
(1,2)(3,6)

I, (3,4)(5,6), (1,2)(5,6), (1,2)(3,4), (1,3)(2,4)(5,6), (1,3,2,4), (1,4,2,3),  
(1,4)(2,3)(5,6)

\*\*\*\*\*BEGIN FGroupSet - Size=1 \*\*\*\*\*

I, (4,5,6), (4,6,5), (1,2,3), (1,2,3)(4,5,6), (1,2,3)(4,6,5), (1,3,2), (1,3,2)(4,5,6),  
(1,3,2)(4,6,5)

\*\*\*\*\*BEGIN FGroupSet - Size=3 \*\*\*\*\*

I, (3,4)(5,6), (2,3)(4,5), (2,3,5,6,4), (2,4,6,5,3), (2,4)(3,6), (2,5)(4,6),  
(2,5,4,3,6), (2,6,3,4,5), (2,6)(3,5)

I, (2,3,4,5,6), (2,4,6,3,5), (2,5,3,6,4), (2,6,5,4,3), (0,1), (0,1)(2,3,4,5,6),  
(0,1)(2,4,6,3,5), (0,1)(2,5,3,6,4), (0,1)(2,6,5,4,3)

I, (1,2)(3,4)(5,6), (0,1)(2,3)(5,6), (0,1,3,4,2), (0,2,4,3,1), (0,2)(1,4)(5,6),  
(0,3)(2,4)(5,6), (0,3,2,1,4), (0,4,1,2,3), (0,4)(1,3)(5,6)

\*\*\*\*\*BEGIN FGroupSet - Size=13 \*\*\*\*\*

I, (5,6), (4,5), (4,5,6), (4,6,5), (4,6), (2,3), (2,3)(5,6), (2,3)(4,5), (2,3)(4,5,6),  
(2,3)(4,6,5), (2,3)(4,6)

I, (5,6), (4,5), (4,5,6), (4,6,5), (4,6), (0,1)(2,3), (0,1)(2,3)(5,6),  
(0,1)(2,3)(4,5), (0,1)(2,3)(4,5,6), (0,1)(2,3)(4,6,5), (0,1)(2,3)(4,6)

I, (5,6), (2,3,4), (2,3,4)(5,6), (2,4,3), (2,4,3)(5,6), (0,1), (0,1)(5,6),  
(0,1)(2,3,4), (0,1)(2,3,4)(5,6), (0,1)(2,4,3), (0,1)(2,4,3)(5,6)

I, (4,5,6), (4,6,5), (3,4)(5,6), (3,4,5), (3,4,6), (3,5,4), (3,5,6), (3,5)(4,6),  
(3,6,4), (3,6,5), (3,6)(4,5)

I, (4,5,6), (4,6,5), (0,1,2,3)(5,6), (0,1,2,3)(4,5), (0,1,2,3)(4,6), (0,2)(1,3),  
(0,2)(1,3)(4,5,6), (0,2)(1,3)(4,6,5), (0,3,2,1)(5,6), (0,3,2,1)(4,5), (0,3,2,1)(4,6)

I, (3,4)(5,6), (3,5)(4,6), (3,6)(4,5), (0,1,2), (0,1,2)(3,4)(5,6), (0,1,2)(3,5)(4,6),  
(0,1,2)(3,6)(4,5), (0,2,1), (0,2,1)(3,4)(5,6), (0,2,1)(3,5)(4,6), (0,2,1)(3,6)(4,5)

I, (3,4)(5,6), (3,5)(4,6), (3,6)(4,5), (0,1,2)(4,5,6), (0,1,2)(3,4,6), (0,1,2)(3,5,4),  
(0,1,2)(3,6,5), (0,2,1)(4,6,5), (0,2,1)(3,4,5), (0,2,1)(3,5,6), (0,2,1)(3,6,4)

I, (3,4)(5,6), (2,3)(5,6), (2,3,4), (2,4,3), (2,4)(5,6), (0,1), (0,1)(3,4)(5,6),  
(0,1)(2,3)(5,6), (0,1)(2,3,4), (0,1)(2,4,3), (0,1)(2,4)(5,6)

I, (3,4)(5,6), (2,3)(5,6), (2,3,4), (2,4,3), (2,4)(5,6), (0,1)(5,6), (0,1)(3,4),  
(0,1)(2,3), (0,1)(2,3,4)(5,6), (0,1)(2,4,3)(5,6), (0,1)(2,4)

I, (3,4)(5,6), (1,2)(5,6), (1,2)(3,4), (1,3,5)(2,4,6), (1,3,6)(2,4,5), (1,4,6)(2,3,5),  
(1,4,5)(2,3,6), (1,5,3)(2,6,4), (1,5,4)(2,6,3), (1,6,3)(2,5,4), (1,6,4)(2,5,3)

I, (3,4)(5,6), (1,2)(3,5)(4,6), (1,2)(3,6)(4,5), (1,3)(2,5)(4,6), (1,3,6,2,5,4),  
(1,4,5,2,6,3), (1,4)(2,6)(3,5), (1,5)(2,3), (1,5,6)(2,3,4), (1,6,5)(2,4,3), (1,6)(2,4)

I, (3,4,5,6), (3,5)(4,6), (3,6,5,4), (0,1,2), (0,1,2)(3,4,5,6), (0,1,2)(3,5)(4,6),  
 (0,1,2)(3,6,5,4), (0,2,1), (0,2,1)(3,4,5,6), (0,2,1)(3,5)(4,6), (0,2,1)(3,6,5,4)

I, (3,6)(4,5), (1,2)(3,4)(5,6), (1,2)(3,5)(4,6), (0,1)(3,4)(5,6), (0,1)(3,5)(4,6),  
 (0,1,2), (0,1,2)(3,6)(4,5), (0,2,1), (0,2,1)(3,6)(4,5), (0,2)(3,4)(5,6),  
 (0,2)(3,5)(4,6)

\*\*\*\*\*BEGIN FGroupSet - Size=1 \*\*\*\*\*  
 I, (1,2)(3,4)(5,6), (0,1)(2,3)(4,5), (0,1,3,5,6,4,2), (0,2,4,6,5,3,1),  
 (0,2)(1,4)(3,6), (0,3)(2,5)(4,6), (0,3,6,2,1,5,4), (0,4,5,1,2,6,3), (0,4)(1,6)(3,5),  
 (0,5)(1,3)(2,6), (0,5,2,3,4,1,6), (0,6,1,4,3,2,5), (0,6)(1,5)(2,4)

\*\*\*\*\*BEGIN FGroupSet - Size=1 \*\*\*\*\*  
 I, (5,6), (3,4), (3,4)(5,6), (1,2), (1,2)(5,6), (1,2)(3,4), (1,2)(3,4)(5,6),  
 (1,3)(2,4), (1,3)(2,4)(5,6), (1,3,2,4), (1,3,2,4)(5,6), (1,4,2,3), (1,4,2,3)(5,6),  
 (1,4)(2,3), (1,4)(2,3)(5,6)

\*\*\*\*\*BEGIN FGroupSet - Size=3 \*\*\*\*\*  
 I, (5,6), (4,5), (4,5,6), (4,6,5), (4,6), (1,2,3), (1,2,3)(5,6), (1,2,3)(4,5),  
 (1,2,3)(4,5,6), (1,2,3)(4,6,5), (1,2,3)(4,6), (1,3,2), (1,3,2)(5,6), (1,3,2)(4,5),  
 (1,3,2)(4,5,6), (1,3,2)(4,6,5), (1,3,2)(4,6)

I, (3,4)(5,6), (2,3)(5,6), (2,3,4), (2,4,3), (2,4)(5,6), (1,5,6), (1,5)(3,4),  
 (1,5)(2,3), (1,5,6)(2,3,4), (1,5,6)(2,4,3), (1,5)(2,4), (1,6,5), (1,6)(3,4),  
 (1,6)(2,3), (1,6,5)(2,3,4), (1,6,5)(2,4,3), (1,6)(2,4)

I, (2,3,5), (2,5,3), (1,2)(3,4)(5,6), (1,2,4,3,6,5), (1,2,6,5,4,3), (1,3,4,5,6,2),  
 (1,3,6,2,4,5), (1,3)(2,6)(4,5), (1,4,6), (1,4,6)(2,3,5), (1,4,6)(2,5,3),  
 (1,5,6,3,4,2), (1,5)(2,4)(3,6), (1,5,4,2,6,3), (1,6,4), (1,6,4)(2,3,5), (1,6,4)(2,5,3)

\*\*\*\*\*BEGIN FGroupSet - Size=3 \*\*\*\*\*  
 I, (3,4)(5,6), (3,5,4,6), (3,6,4,5), (2,3)(4,6), (2,3,4,5), (2,3,5,6), (2,3,6,5,4),  
 (2,4,5,6,3), (2,4,6,5), (2,4)(3,5), (2,4,3,6), (2,5,4,3), (2,5,6,4), (2,5,3,4,6),  
 (2,5)(3,6), (2,6,5,3), (2,6)(4,5), (2,6,3,4), (2,6,4,3,5)

I, (3,4)(5,6), (2,3)(4,5), (2,3,5,6,4), (2,4,6,5,3), (2,4)(3,6), (2,5)(4,6),  
 (2,5,4,3,6), (2,6,3,4,5), (2,6)(3,5), (0,1), (0,1)(3,4)(5,6), (0,1)(2,3)(4,5),  
 (0,1)(2,3,5,6,4), (0,1)(2,4,6,5,3), (0,1)(2,4)(3,6), (0,1)(2,5)(4,6),  
 (0,1)(2,5,4,3,6), (0,1)(2,6,3,4,5), (0,1)(2,6)(3,5)

I, (3,4)(5,6), (2,3)(4,6), (2,3,6,5,4), (2,4,5,6,3), (2,4)(3,5), (2,5,3,4,6),  
 (2,5)(3,6), (2,6)(4,5), (2,6,4,3,5), (0,1)(3,5,4,6), (0,1)(3,6,4,5), (0,1)(2,3,4,5),  
 (0,1)(2,3,5,6), (0,1)(2,4,6,5), (0,1)(2,4,3,6), (0,1)(2,5,4,3), (0,1)(2,5,6,4),  
 (0,1)(2,6,5,3), (0,1)(2,6,3,4)

\*\*\*\*\*BEGIN FGroupSet - Size=1 \*\*\*\*\*  
 I, (1,2,3)(4,5,6), (1,3,2)(4,6,5), (0,1,2,4,3,6,5), (0,1,4)(2,6,3), (0,1,6)(3,4,5),  
 (0,2,5)(1,3,4), (0,2,3,5,1,4,6), (0,2,4)(1,5,6), (0,3,5)(2,6,4), (0,3,6)(1,5,2),  
 (0,3,1,6,2,5,4), (0,4,1)(2,3,6), (0,4,5,2,6,1,3), (0,4,2)(1,6,5), (0,5,6,3,4,2,1),  
 (0,5,3)(2,4,6), (0,5,2)(1,4,3), (0,6,1)(3,5,4), (0,6,3)(1,2,5), (0,6,4,1,5,3,2)

\*\*\*\*\*BEGIN FGroupSet - Size=14 \*\*\*\*\*  
 I, (5,6), (4,5), (4,5,6), (4,6,5), (4,6), (3,4), (3,4)(5,6), (3,4,5), (3,4,5,6),  
 (3,4,6,5), (3,4,6), (3,5,4), (3,5,6,4), (3,5), (3,5,6), (3,5)(4,6), (3,5,4,6),  
 (3,6,5,4), (3,6,4), (3,6,5), (3,6), (3,6,4,5), (3,6)(4,5)

I, (5,6), (4,5), (4,5,6), (4,6,5), (4,6), (0,1,2,3), (0,1,2,3)(5,6), (0,1,2,3)(4,5),  
 (0,1,2,3)(4,5,6), (0,1,2,3)(4,6,5), (0,1,2,3)(4,6), (0,2)(1,3), (0,2)(1,3)(5,6),  
 (0,2)(1,3)(4,5), (0,2)(1,3)(4,5,6), (0,2)(1,3)(4,6,5), (0,2)(1,3)(4,6), (0,3,2,1),  
 (0,3,2,1)(5,6), (0,3,2,1)(4,5), (0,3,2,1)(4,5,6), (0,3,2,1)(4,6,5), (0,3,2,1)(4,6)

I, (5,6), (3,4), (3,4)(5,6), (3,5)(4,6), (3,5,4,6), (3,6,4,5), (3,6)(4,5), (0,1,2),  
 (0,1,2)(5,6), (0,1,2)(3,4), (0,1,2)(3,4)(5,6), (0,1,2)(3,5)(4,6), (0,1,2)(3,5,4,6),  
 (0,1,2)(3,6,4,5), (0,1,2)(3,6)(4,5), (0,2,1), (0,2,1)(5,6), (0,2,1)(3,4),  
 (0,2,1)(3,4)(5,6), (0,2,1)(3,5)(4,6), (0,2,1)(3,5,4,6), (0,2,1)(3,6,4,5),  
 (0,2,1)(3,6)(4,5)

$I, (5,6), (3,4), (3,4)(5,6), (2,3), (2,3)(5,6), (2,3,4), (2,3,4)(5,6), (2,4,3),$   
 $(2,4,3)(5,6), (2,4), (2,4)(5,6), (0,1), (0,1)(5,6), (0,1)(3,4), (0,1)(3,4)(5,6),$   
 $(0,1)(2,3), (0,1)(2,3)(5,6), (0,1)(2,3,4), (0,1)(2,3,4)(5,6), (0,1)(2,4,3),$   
 $(0,1)(2,4,3)(5,6), (0,1)(2,4), (0,1)(2,4)(5,6)$

$I, (5,6), (2,4), (2,4)(5,6), (1,2,5)(3,4,6), (1,2,5,3,4,6), (1,2,6,3,4,5),$   
 $(1,2,6)(3,4,5), (1,3), (1,3)(5,6), (1,3)(2,4), (1,3)(2,4)(5,6), (1,4,6,3,2,5),$   
 $(1,4,6)(2,5,3), (1,4,5)(2,6,3), (1,4,5,3,2,6), (1,5,2)(3,6,4), (1,5,4,3,6,2),$   
 $(1,5,2,3,6,4), (1,5,4)(2,3,6), (1,6,4,3,5,2), (1,6,2)(3,5,4), (1,6,4)(2,3,5),$   
 $(1,6,2,3,5,4)$

$I, (5,6), (1,2)(3,4), (1,2)(3,4)(5,6), (1,3)(2,4), (1,3)(2,4)(5,6), (1,4)(2,3),$   
 $(1,4)(2,3)(5,6), (0,5), (0,5,6), (0,5)(1,2)(3,4), (0,5,6)(1,2)(3,4), (0,5)(1,3)(2,4),$   
 $(0,5,6)(1,3)(2,4), (0,5)(1,4)(2,3), (0,5,6)(1,4)(2,3), (0,6,5), (0,6),$   
 $(0,6,5)(1,2)(3,4), (0,6)(1,2)(3,4), (0,6,5)(1,3)(2,4), (0,6)(1,3)(2,4),$   
 $(0,6,5)(1,4)(2,3), (0,6)(1,4)(2,3)$

$I, (4,5,6), (4,6,5), (3,4)(5,6), (3,4,5), (3,4,6), (3,5,4), (3,5,6), (3,5)(4,6),$   
 $(3,6,4), (3,6,5), (3,6)(4,5), (1,2), (1,2)(4,5,6), (1,2)(4,6,5), (1,2)(3,4)(5,6),$   
 $(1,2)(3,4,5), (1,2)(3,4,6), (1,2)(3,5,4), (1,2)(3,5,6), (1,2)(3,5)(4,6), (1,2)(3,6,4),$   
 $(1,2)(3,6,5), (1,2)(3,6)(4,5)$

$I, (4,6), (3,5), (3,5)(4,6), (1,2)(3,4)(5,6), (1,2)(3,4,5,6), (1,2)(3,6,5,4),$   
 $(1,2)(3,6)(4,5), (0,1)(3,4)(5,6), (0,1)(3,4,5,6), (0,1)(3,6,5,4), (0,1)(3,6)(4,5),$   
 $(0,1,2), (0,1,2)(4,6), (0,1,2)(3,5), (0,1,2)(3,5)(4,6), (0,2,1), (0,2,1)(4,6),$   
 $(0,2,1)(3,5), (0,2,1)(3,5)(4,6), (0,2)(3,4)(5,6), (0,2)(3,4,5,6), (0,2)(3,6,5,4),$   
 $(0,2)(3,6)(4,5)$

$I, (3,4)(5,6), (3,5)(4,6), (3,6)(4,5), (1,2)(4,6), (1,2)(3,4,5,6), (1,2)(3,5),$   
 $(1,2)(3,6,5,4), (1,3)(2,5), (1,3,2,5)(4,6), (1,3,4)(2,5,6), (1,3,6)(2,5,4),$   
 $(1,4,3)(2,6,5), (1,4,5)(2,6,3), (1,4)(2,6), (1,4,2,6)(3,5), (1,5,2,3)(4,6),$   
 $(1,5)(2,3), (1,5,6)(2,3,4), (1,5,4)(2,3,6), (1,6,3)(2,4,5), (1,6,5)(2,4,3),$   
 $(1,6)(2,4), (1,6,2,4)(3,5)$

$I, (3,4)(5,6), (2,3)(5,6), (2,3,4), (2,4,3), (2,4)(5,6), (1,2)(5,6), (1,2)(3,4),$   
 $(1,2,3), (1,2,3,4)(5,6), (1,2,4,3)(5,6), (1,2,4), (1,3,2), (1,3,4,2)(5,6), (1,3)(5,6),$   
 $(1,3,4), (1,3)(2,4), (1,3,2,4)(5,6), (1,4,3,2)(5,6), (1,4,2), (1,4,3), (1,4)(5,6),$   
 $(1,4,2,3)(5,6), (1,4)(2,3)$

$I, (3,4)(5,6), (2,5,6), (2,5)(3,4), (2,6,5), (2,6)(3,4), (0,1)(5,6), (0,1)(3,4),$   
 $(0,1)(2,5), (0,1)(2,5,6)(3,4), (0,1)(2,6), (0,1)(2,6,5)(3,4), (0,3)(1,4),$   
 $(0,3,1,4)(5,6), (0,3)(1,4)(2,5,6), (0,3,1,4)(2,5), (0,3)(1,4)(2,6,5), (0,3,1,4)(2,6),$   
 $(0,4,1,3)(5,6), (0,4)(1,3), (0,4,1,3)(2,5), (0,4)(1,3)(2,5,6), (0,4,1,3)(2,6),$   
 $(0,4)(1,3)(2,6,5)$

$I, (3,4)(5,6), (2,5,6), (2,5)(3,4), (2,6,5), (2,6)(3,4), (0,1)(5,6), (0,1)(3,4),$   
 $(0,1)(2,5), (0,1)(2,5,6)(3,4), (0,1)(2,6), (0,1)(2,6,5)(3,4), (0,3)(1,4)(5,6),$   
 $(0,3,1,4), (0,3)(1,4)(2,5), (0,3,1,4)(2,5,6), (0,3)(1,4)(2,6), (0,3,1,4)(2,6,5),$   
 $(0,4,1,3), (0,4)(1,3)(5,6), (0,4,1,3)(2,5,6), (0,4)(1,3)(2,5), (0,4,1,3)(2,6,5),$   
 $(0,4)(1,3)(2,6)$

$I, (3,4)(5,6), (1,3)(2,6), (1,3,4)(2,6,5), (1,4,3)(2,5,6), (1,4)(2,5), (0,1)(5,6),$   
 $(0,1)(3,4), (0,1,3)(2,5,6), (0,1,3,4)(2,5), (0,1,4,3)(2,6), (0,1,4)(2,6,5),$   
 $(0,3,1)(2,6,5), (0,3,4,1)(2,6), (0,3)(2,5), (0,3,4)(2,5,6), (0,3)(1,4),$   
 $(0,3,1,4)(5,6), (0,4,3,1)(2,5), (0,4,1)(2,5,6), (0,4,3)(2,6,5), (0,4)(2,6),$   
 $(0,4,1,3)(5,6), (0,4)(1,3)$

$I, (2,3,5,4), (2,4,5,3), (2,5)(3,4), (1,2)(3,4)(5,6), (1,2,3)(4,6,5), (1,2,4)(3,6,5),$   
 $(1,2,6,5), (1,3,2)(4,5,6), (1,3,6,4), (1,3)(2,5)(4,6), (1,3,5)(2,6,4), (1,4,2)(3,5,6),$   
 $(1,4,6,3), (1,4)(2,5)(3,6), (1,4,5)(2,6,3), (1,5,6,2), (1,5,4)(2,3,6), (1,5,3)(2,4,6),$   
 $(1,5)(2,6)(3,4), (1,6)(3,4), (1,6)(2,3)(4,5), (1,6)(2,4)(3,5), (1,6)(2,5)$

\*\*\*\*\*BEGIN FGroupSet - Size=4 \*\*\*\*\*

$I, (5,6), (3,4), (3,4)(5,6), (2,5), (2,5,6), (2,5)(3,4), (2,5,6)(3,4), (2,6,5), (2,6),$   
 $(2,6,5)(3,4), (2,6)(3,4), (1,3), (1,3)(5,6), (1,3,4), (1,3,4)(5,6), (1,3)(2,5),$   
 $(1,3)(2,5,6), (1,3,4)(2,5), (1,3,4)(2,5,6), (1,3)(2,6,5), (1,3)(2,6), (1,3,4)(2,6,5),$

(1,3,4)(2,6), (1,4,3), (1,4,3)(5,6), (1,4), (1,4)(5,6), (1,4,3)(2,5), (1,4,3)(2,5,6),  
(1,4)(2,5), (1,4)(2,5,6), (1,4,3)(2,6,5), (1,4,3)(2,6), (1,4)(2,6,5), (1,4)(2,6)

I, (4,5,6), (4,6,5), (3,4)(5,6), (3,4,5), (3,4,6), (3,5,4), (3,5,6), (3,5)(4,6),  
(3,6,4), (3,6,5), (3,6)(4,5), (0,1,2), (0,1,2)(4,5,6), (0,1,2)(4,6,5),  
(0,1,2)(3,4)(5,6), (0,1,2)(3,4,5), (0,1,2)(3,4,6), (0,1,2)(3,5,4), (0,1,2)(3,5,6),  
(0,1,2)(3,5)(4,6), (0,1,2)(3,6,4), (0,1,2)(3,6,5), (0,1,2)(3,6)(4,5), (0,2,1),  
(0,2,1)(4,5,6), (0,2,1)(4,6,5), (0,2,1)(3,4)(5,6), (0,2,1)(3,4,5), (0,2,1)(3,4,6),  
(0,2,1)(3,5,4), (0,2,1)(3,5,6), (0,2,1)(3,5)(4,6), (0,2,1)(3,6,4), (0,2,1)(3,6,5),  
(0,2,1)(3,6)(4,5)

I, (3,4)(5,6), (2,5,6), (2,5)(3,4), (2,6,5), (2,6)(3,4), (1,2)(3,5)(4,6),  
(1,2)(3,6)(4,5), (1,2,3,5,4,6), (1,2,3,6,4,5), (1,2,4,6,3,5), (1,2,4,5,3,6),  
(1,3)(5,6), (1,3,4), (1,3)(2,5), (1,3,4)(2,5,6), (1,3)(2,6), (1,3,4)(2,6,5), (1,4,3),  
(1,4)(5,6), (1,4,3)(2,5,6), (1,4)(2,5), (1,4,3)(2,6,5), (1,4)(2,6), (1,5,4,6,3,2),  
(1,5,3,6,4,2), (1,5)(2,3)(4,6), (1,5,4,2,3,6), (1,5,3,2,4,6), (1,5)(2,4)(3,6),  
(1,6,4,5,3,2), (1,6,3,5,4,2), (1,6)(2,3)(4,5), (1,6,4,2,3,5), (1,6,3,2,4,5),  
(1,6)(2,4)(3,5)

I, (3,4)(5,6), (2,5,6), (2,5)(3,4), (2,6,5), (2,6)(3,4), (1,2)(3,5,4,6),  
(1,2)(3,6,4,5), (1,2,3,5)(4,6), (1,2,3,6)(4,5), (1,2,4,6)(3,5), (1,2,4,5)(3,6),  
(1,3)(5,6), (1,3,4), (1,3)(2,5), (1,3,4)(2,5,6), (1,3)(2,6), (1,3,4)(2,6,5), (1,4,3),  
(1,4)(5,6), (1,4,3)(2,5,6), (1,4)(2,5), (1,4,3)(2,6,5), (1,4)(2,6), (1,5,3,2)(4,6),  
(1,5,4,2)(3,6), (1,5,4,6)(2,3), (1,5)(2,3,6,4), (1,5)(2,4,6,3), (1,5,3,6)(2,4),  
(1,6,3,2)(4,5), (1,6,4,2)(3,5), (1,6,4,5)(2,3), (1,6)(2,3,5,4), (1,6)(2,4,5,3),  
(1,6,3,5)(2,4)

\*\*\*\*\*BEGIN FGroupSet - Size=1 \*\*\*\*\*

I, (5,6), (1,2)(3,4), (1,2)(3,4)(5,6), (1,3,2,4), (1,3,2,4)(5,6), (1,4,2,3),  
(1,4,2,3)(5,6), (0,1)(2,4), (0,1)(2,4)(5,6), (0,1,2,3), (0,1,2,3)(5,6), (0,1,3,4),  
(0,1,3,4)(5,6), (0,1,4,3,2), (0,1,4,3,2)(5,6), (0,2,3,4,1), (0,2,3,4,1)(5,6),  
(0,2,4,3), (0,2,4,3)(5,6), (0,2)(1,3), (0,2)(1,3)(5,6), (0,2,1,4), (0,2,1,4)(5,6),  
(0,3,2,1), (0,3,2,1)(5,6), (0,3,4,2), (0,3,4,2)(5,6), (0,3,1,2,4), (0,3,1,2,4)(5,6),  
(0,3)(1,4), (0,3)(1,4)(5,6), (0,4,3,1), (0,4,3,1)(5,6), (0,4)(2,3), (0,4)(2,3)(5,6),  
(0,4,1,2), (0,4,1,2)(5,6), (0,4,2,1,3), (0,4,2,1,3)(5,6)

\*\*\*\*\*BEGIN FGroupSet - Size=1 \*\*\*\*\*

I, (1,2)(3,4)(5,6), (1,3,5,2,4,6), (1,4,5)(2,3,6), (1,5,4)(2,6,3), (1,6,4,2,5,3),  
(0,1)(2,5)(3,6), (0,1,2,3,5,4), (0,1,3)(4,5,6), (0,1,4,2,6,5), (0,1,5,3,4,6,2),  
(0,1,6)(2,4,3), (0,2,6,4,3,5,1), (0,2,4)(3,6,5), (0,2,5)(1,3,4), (0,2,1,4,6,3),  
(0,2,3,1,5,6), (0,2)(1,6)(4,5), (0,3,1)(4,6,5), (0,3,4,5,2,6), (0,3,6,4,1,2),  
(0,3,2,5,6,1,4), (0,3)(1,5)(2,4), (0,3,5)(1,6,2), (0,4,5,3,2,1), (0,4,2)(3,5,6),  
(0,4,6)(1,2,5), (0,4)(1,3)(2,6), (0,4,3,6,1,5), (0,4,1,6,5,2,3), (0,5,6,2,4,1),  
(0,5)(2,3)(4,6), (0,5,3)(1,2,6), (0,5,4,2,1,3,6), (0,5,2)(1,4,3), (0,5,1,6,3,4),  
(0,6,1)(2,3,4), (0,6,2,5,4,3), (0,6,3,1,2,4,5), (0,6,5,1,3,2), (0,6)(1,4)(3,5),  
(0,6,4)(1,5,2)

\*\*\*\*\*BEGIN FGroupSet - Size=3 \*\*\*\*\*

I, (5,6), (4,5), (4,5,6), (4,6,5), (4,6), (3,4), (3,4)(5,6), (3,4,5), (3,4,5,6),  
(3,4,6,5), (3,4,6), (3,5,4), (3,5,6,4), (3,5), (3,5,6), (3,5)(4,6), (3,5,4,6),  
(3,6,5,4), (3,6,4), (3,6,5), (3,6), (3,6,4,5), (3,6)(4,5), (1,2), (1,2)(5,6),  
(1,2)(4,5), (1,2)(4,5,6), (1,2)(4,6,5), (1,2)(4,6), (1,2)(3,4), (1,2)(3,4)(5,6),  
(1,2)(3,4,5), (1,2)(3,4,5,6), (1,2)(3,4,6,5), (1,2)(3,4,6), (1,2)(3,5,4),  
(1,2)(3,5,6,4), (1,2)(3,5), (1,2)(3,5,6), (1,2)(3,5)(4,6), (1,2)(3,5,4,6),  
(1,2)(3,6,5,4), (1,2)(3,6,4), (1,2)(3,6,5), (1,2)(3,6), (1,2)(3,6,4,5),  
(1,2)(3,6)(4,5)

I, (5,6), (3,4), (3,4)(5,6), (2,5), (2,5,6), (2,5)(3,4), (2,5,6)(3,4), (2,6,5), (2,6),  
(2,6,5)(3,4), (2,6)(3,4), (0,1), (0,1)(5,6), (0,1)(3,4), (0,1)(3,4)(5,6), (0,1)(2,5),  
(0,1)(2,5,6), (0,1)(2,5)(3,4), (0,1)(2,5,6)(3,4), (0,1)(2,6,5), (0,1)(2,6),  
(0,1)(2,6,5)(3,4), (0,1)(2,6)(3,4), (0,3)(1,4), (0,3)(1,4)(5,6), (0,3,1,4),  
(0,3,1,4)(5,6), (0,3)(1,4)(2,5), (0,3)(1,4)(2,5,6), (0,3,1,4)(2,5), (0,3,1,4)(2,5,6),  
(0,3)(1,4)(2,6,5), (0,3)(1,4)(2,6), (0,3,1,4)(2,6,5), (0,3,1,4)(2,6), (0,4,1,3),  
(0,4,1,3)(5,6), (0,4)(1,3), (0,4)(1,3)(5,6), (0,4,1,3)(2,5), (0,4,1,3)(2,5,6),  
(0,4)(1,3)(2,5), (0,4)(1,3)(2,5,6), (0,4,1,3)(2,6,5), (0,4,1,3)(2,6),  
(0,4)(1,3)(2,6,5), (0,4)(1,3)(2,6)

```

I, (4,6), (3,4)(5,6), (3,4,5,6), (3,5), (3,5)(4,6), (3,6,5,4), (3,6)(4,5), (1,2),
(1,2)(4,6), (1,2)(3,4)(5,6), (1,2)(3,4,5,6), (1,2)(3,5), (1,2)(3,5)(4,6),
(1,2)(3,6,5,4), (1,2)(3,6)(4,5), (1,3)(2,5)(4,6), (1,3)(2,5), (1,3)(2,5)(4,6), (1,3,2,5),
(1,3,2,5)(4,6), (1,3,4)(2,5,6), (1,3,4,2,5,6), (1,3,6,2,5,4), (1,3,6)(2,5,4),
(1,4,3)(2,6,5), (1,4,5,2,6,3), (1,4,3,2,6,5), (1,4,5)(2,6,3), (1,4)(2,6), (1,4,2,6),
(1,4)(2,6)(3,5), (1,4,2,6)(3,5), (1,5,2,3), (1,5,2,3)(4,6), (1,5)(2,3),
(1,5)(2,3)(4,6), (1,5,6,2,3,4), (1,5,6)(2,3,4), (1,5,4)(2,3,6), (1,5,4,2,3,6),
(1,6,5,2,4,3), (1,6,3)(2,4,5), (1,6,5)(2,4,3), (1,6,3,2,4,5), (1,6,2,4), (1,6)(2,4),
(1,6,2,4)(3,5), (1,6)(2,4)(3,5)
*****BEGIN FGroupSet - Size=2 *****
I, (4,5,6), (4,6,5), (3,4)(5,6), (3,4,5), (3,4,6), (3,5,4), (3,5,6), (3,5)(4,6),
(3,6,4), (3,6,5), (3,6)(4,5), (2,3)(5,6), (2,3)(4,5), (2,3)(4,6), (2,3,4),
(2,3,4,5,6), (2,3,4,6,5), (2,3,5,6,4), (2,3,5), (2,3,5,4,6), (2,3,6,5,4), (2,3,6),
(2,3,6,4,5), (2,4,3), (2,4,5,6,3), (2,4,6,5,3), (2,4)(5,6), (2,4,5), (2,4,6),
(2,4)(3,5), (2,4,3,5,6), (2,4,6,3,5), (2,4)(3,6), (2,4,3,6,5), (2,4,5,3,6),
(2,5,6,4,3), (2,5,3), (2,5,4,6,3), (2,5,4), (2,5,6), (2,5)(4,6), (2,5,6,3,4),
(2,5)(3,4), (2,5,3,4,6), (2,5,3,6,4), (2,5,4,3,6), (2,5)(3,6), (2,6,5,4,3), (2,6,3),
(2,6,4,5,3), (2,6,4), (2,6,5), (2,6)(4,5), (2,6,5,3,4), (2,6)(3,4), (2,6,3,4,5),
(2,6,3,5,4), (2,6,4,3,5), (2,6)(3,5)

I, (3,4)(5,6), (2,3)(4,6), (2,3,6,5,4), (2,4,5,6,3), (2,4)(3,5), (2,5,3,4,6),
(2,5)(3,6), (2,6)(4,5), (2,6,4,3,5), (1,2)(5,6), (1,2)(3,4), (1,2,3)(4,5,6),
(1,2,3,5,4), (1,2,4,6,3), (1,2,4)(3,6,5), (1,2,5,4,6), (1,2,5)(3,6,4), (1,2,6)(3,4,5),
(1,2,6,3,5), (1,3,2)(4,6,5), (1,3,6,4,2), (1,3)(4,5), (1,3,5,6,4), (1,3,5)(2,4,6),
(1,3,6)(2,4,5), (1,3,2,5,6), (1,3,4,2,5), (1,3)(2,6), (1,3,4)(2,6,5), (1,4,5,3,2),
(1,4,2)(3,5,6), (1,4,6,5,3), (1,4)(3,6), (1,4,6)(2,3,5), (1,4,5)(2,3,6),
(1,4,3)(2,5,6), (1,4)(2,5), (1,4,3,2,6), (1,4,2,6,5), (1,5,2)(3,4,6), (1,5,3,6,2),
(1,5)(4,6), (1,5,4,3,6), (1,5)(2,3), (1,5,6)(2,3,4), (1,5,2,4,3), (1,5,6,2,4),
(1,5,3)(2,6,4), (1,5,4)(2,6,3), (1,6,4,5,2), (1,6,2)(3,5,4), (1,6,3,4,5), (1,6)(3,5),
(1,6,5,2,3), (1,6,2,3,4), (1,6,5)(2,4,3), (1,6)(2,4), (1,6,3)(2,5,4), (1,6,4)(2,5,3)
*****BEGIN FGroupSet - Size=4 *****
I, (5,6), (4,5), (4,5,6), (4,6,5), (4,6), (3,4), (3,4)(5,6), (3,4,5), (3,4,5,6),
(3,4,6,5), (3,4,6), (3,5,4), (3,5,6,4), (3,5), (3,5,6), (3,5)(4,6), (3,5,4,6),
(3,6,5,4), (3,6,4), (3,6,5), (3,6), (3,6,4,5), (3,6)(4,5), (0,1,2), (0,1,2)(5,6),
(0,1,2)(4,5), (0,1,2)(4,5,6), (0,1,2)(4,6,5), (0,1,2)(4,6), (0,1,2)(3,4),
(0,1,2)(3,4)(5,6), (0,1,2)(3,4,5), (0,1,2)(3,4,5,6), (0,1,2)(3,4,6,5), (0,1,2)(3,4,6),
(0,1,2)(3,5,4), (0,1,2)(3,5,6,4), (0,1,2)(3,5), (0,1,2)(3,5,6), (0,1,2)(3,5)(4,6),
(0,1,2)(3,5,4,6), (0,1,2)(3,6,5,4), (0,1,2)(3,6,4), (0,1,2)(3,6,5), (0,1,2)(3,6),
(0,1,2)(3,6,4,5), (0,1,2)(3,6)(4,5), (0,2,1), (0,2,1)(5,6), (0,2,1)(4,5),
(0,2,1)(4,5,6), (0,2,1)(4,6,5), (0,2,1)(4,6), (0,2,1)(3,4), (0,2,1)(3,4)(5,6),
(0,2,1)(3,4,5), (0,2,1)(3,4,5,6), (0,2,1)(3,4,6,5), (0,2,1)(3,4,6), (0,2,1)(3,5,4),
(0,2,1)(3,5,6,4), (0,2,1)(3,5), (0,2,1)(3,5,6), (0,2,1)(3,5)(4,6), (0,2,1)(3,5,4,6),
(0,2,1)(3,6,5,4), (0,2,1)(3,6,4), (0,2,1)(3,6,5), (0,2,1)(3,6), (0,2,1)(3,6,4,5),
(0,2,1)(3,6)(4,5)

I, (5,6), (3,4), (3,4)(5,6), (2,5), (2,5,6), (2,5)(3,4), (2,5,6)(3,4), (2,6,5), (2,6),
(2,6,5)(3,4), (2,6)(3,4), (1,2)(3,5)(4,6), (1,2)(3,5,4,6), (1,2)(3,6,4,5),
(1,2)(3,6)(4,5), (1,2,3,5)(4,6), (1,2,3,5,4,6), (1,2,3,6,4,5), (1,2,3,6)(4,5),
(1,2,4,6,3,5), (1,2,4,6)(3,5), (1,2,4,5)(3,6), (1,2,4,5,3,6), (1,3), (1,3)(5,6),
(1,3,4), (1,3,4)(5,6), (1,3)(2,5), (1,3)(2,5,6), (1,3,4)(2,5), (1,3,4)(2,5,6),
(1,3)(2,6,5), (1,3)(2,6), (1,3,4)(2,6,5), (1,3,4)(2,6), (1,4,3), (1,4,3)(5,6), (1,4),
(1,4)(5,6), (1,4,3)(2,5), (1,4,3)(2,5,6), (1,4)(2,5), (1,4)(2,5,6), (1,4,3)(2,6,5),
(1,4,3)(2,6), (1,4)(2,6,5), (1,4)(2,6), (1,5,3,2)(4,6), (1,5,4,6,3,2), (1,5,3,6,4,2),
(1,5,4,2)(3,6), (1,5)(2,3)(4,6), (1,5,4,6)(2,3), (1,5)(2,3,6,4), (1,5,4,2,3,6),
(1,5)(2,4,6,3), (1,5,3,2,4,6), (1,5)(2,4)(3,6), (1,5,3,6)(2,4), (1,6,4,5,3,2),
(1,6,3,2)(4,5), (1,6,4,2)(3,5), (1,6,3,5,4,2), (1,6,4,5)(2,3), (1,6)(2,3)(4,5),
(1,6,4,2,3,5), (1,6)(2,3,5,4), (1,6,3,2,4,5), (1,6)(2,4,5,3), (1,6,3,5)(2,4),
(1,6)(2,4)(3,5)

I, (4,5,6), (4,6,5), (3,4)(5,6), (3,4,5), (3,4,6), (3,5,4), (3,5,6), (3,5)(4,6),
(3,6,4), (3,6,5), (3,6)(4,5), (1,2), (1,2)(4,5,6), (1,2)(4,6,5), (1,2)(3,4)(5,6),
(1,2)(3,4,5), (1,2)(3,4,6), (1,2)(3,5,4), (1,2)(3,5,6), (1,2)(3,5)(4,6), (1,2)(3,6,4),

```

(1,2)(3,6,5), (1,2)(3,6)(4,5), (0,1), (0,1)(4,5,6), (0,1)(4,6,5), (0,1)(3,4)(5,6),  
(0,1)(3,4,5), (0,1)(3,4,6), (0,1)(3,5,4), (0,1)(3,5,6), (0,1)(3,5)(4,6), (0,1)(3,6,4),  
(0,1)(3,6,5), (0,1)(3,6)(4,5), (0,1,2), (0,1,2)(4,5,6), (0,1,2)(4,6,5),  
(0,1,2)(3,4)(5,6), (0,1,2)(3,4,5), (0,1,2)(3,4,6), (0,1,2)(3,5,4), (0,1,2)(3,5,6),  
(0,1,2)(3,5)(4,6), (0,1,2)(3,6,4), (0,1,2)(3,6,5), (0,1,2)(3,6)(4,5), (0,2,1),  
(0,2,1)(4,5,6), (0,2,1)(4,6,5), (0,2,1)(3,4)(5,6), (0,2,1)(3,4,5), (0,2,1)(3,4,6),  
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(0,2,1)(3,6)(4,5), (0,2), (0,2)(4,5,6), (0,2)(4,6,5), (0,2)(3,4)(5,6), (0,2)(3,4,5),  
(0,2)(3,4,6), (0,2)(3,5,4), (0,2)(3,5,6), (0,2)(3,5)(4,6), (0,2)(3,6,4), (0,2)(3,6,5),  
(0,2)(3,6)(4,5)

I, (3,4)(5,6), (2,3)(5,6), (2,3,4), (2,4,3), (2,4)(5,6), (1,5,6), (1,5)(3,4),  
(1,5)(2,3), (1,5,6)(2,3,4), (1,5,6)(2,4,3), (1,5)(2,4), (1,6,5), (1,6)(3,4),  
(1,6)(2,3), (1,6,5)(2,3,4), (1,6,5)(2,4,3), (1,6)(2,4), (0,1)(5,6), (0,1)(3,4),  
(0,1)(2,3), (0,1)(2,3,4)(5,6), (0,1)(2,4,3)(5,6), (0,1)(2,4), (0,1,5), (0,1,5,6)(3,4),  
(0,1,5,6)(2,3), (0,1,5)(2,3,4), (0,1,5)(2,4,3), (0,1,5,6)(2,4), (0,1,6),  
(0,1,6,5)(3,4), (0,1,6,5)(2,3), (0,1,6)(2,3,4), (0,1,6)(2,4,3), (0,1,6,5)(2,4),  
(0,5,1), (0,5,6,1)(3,4), (0,5,6,1)(2,3), (0,5,1)(2,3,4), (0,5,1)(2,4,3),  
(0,5,6,1)(2,4), (0,5,6), (0,5)(3,4), (0,5)(2,3), (0,5,6)(2,3,4), (0,5,6)(2,4,3),  
(0,5)(2,4), (0,5)(1,6), (0,5,1,6)(3,4), (0,5,1,6)(2,3), (0,5)(1,6)(2,3,4),  
(0,5)(1,6)(2,4,3), (0,5,1,6)(2,4), (0,6,1), (0,6,5,1)(3,4), (0,6,5,1)(2,3),  
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(0,6,5)(2,3,4), (0,6,5)(2,4,3), (0,6)(2,4), (0,6)(1,5), (0,6,1,5)(3,4),  
(0,6,1,5)(2,3), (0,6)(1,5)(2,3,4), (0,6)(1,5)(2,4,3), (0,6,1,5)(2,4)

\*\*\*\*\*BEGIN FGGroupSet - Size=4 \*\*\*\*\*

I, (5,6), (4,5), (4,5,6), (4,6,5), (4,6), (3,4), (3,4)(5,6), (3,4,5), (3,4,5,6),  
(3,4,6,5), (3,4,6), (3,5,4), (3,5,6,4), (3,5), (3,5,6), (3,5)(4,6), (3,5,4,6),  
(3,6,5,4), (3,6,4), (3,6,5), (3,6), (3,6,4,5), (3,6)(4,5), (2,3), (2,3)(5,6),  
(2,3)(4,5), (2,3)(4,5,6), (2,3)(4,6,5), (2,3)(4,6), (2,3,4), (2,3,4)(5,6), (2,3,4,5),  
(2,3,4,5,6), (2,3,4,6,5), (2,3,4,6), (2,3,5,4), (2,3,5,6,4), (2,3,5), (2,3,5,6),  
(2,3,5)(4,6), (2,3,5,4,6), (2,3,6,5,4), (2,3,6,4), (2,3,6,5), (2,3,6), (2,3,6,4,5),  
(2,3,6)(4,5), (2,4,3), (2,4,3)(5,6), (2,4,5,3), (2,4,5,6,3), (2,4,6,5,3), (2,4,6,6,3),  
(2,4), (2,4)(5,6), (2,4,5), (2,4,5,6), (2,4,6,5), (2,4,6), (2,4)(3,5), (2,4)(3,5,6),  
(2,4,3,5), (2,4,3,5,6), (2,4,6,3,5), (2,4,6)(3,5), (2,4)(3,6,5), (2,4)(3,6),  
(2,4,3,6,5), (2,4,3,6), (2,4,5)(3,6), (2,4,5,3,6), (2,5,4,3), (2,5,6,4,3), (2,5,3),  
(2,5,6,3), (2,5,3)(4,6), (2,5,4,6,3), (2,5,4), (2,5,6,4), (2,5), (2,5,6), (2,5)(4,6),  
(2,5,4,6), (2,5,3,4), (2,5,6,3,4), (2,5)(3,4), (2,5,6)(3,4), (2,5)(3,4,6),  
(2,5,3,4,6), (2,5,3,6,4), (2,5,4)(3,6), (2,5)(3,6,4), (2,5,4,3,6), (2,5)(3,6),  
(2,5,3,6), (2,6,5,4,3), (2,6,4,3), (2,6,5,3), (2,6,3), (2,6,4,5,3), (2,6,3)(4,5),  
(2,6,5,4), (2,6,4), (2,6,5), (2,6), (2,6,4,5), (2,6)(4,5), (2,6,5,3,4), (2,6,3,4),  
(2,6,5)(3,4), (2,6)(3,4), (2,6,3,4,5), (2,6)(3,4,5), (2,6,4)(3,5), (2,6,3,5,4),  
(2,6,4,3,5), (2,6)(3,5,4), (2,6,3,5), (2,6)(3,5)

I, (4,5,6), (4,6,5), (3,4)(5,6), (3,4,5), (3,4,6), (3,5,4), (3,5,6), (3,5)(4,6),  
(3,6,4), (3,6,5), (3,6)(4,5), (2,3)(5,6), (2,3)(4,5), (2,3)(4,6), (2,3,4),  
(2,3,4,5,6), (2,3,4,6,5), (2,3,5,6,4), (2,3,5), (2,3,5,4,6), (2,3,6,5,4), (2,3,6),  
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(2,5)(3,4), (2,5,3,4,6), (2,5,3,6,4), (2,5,4,3,6), (2,5)(3,6), (2,6,5,4,3), (2,6,3),  
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(2,6,3,5,4), (2,6,4,3,5), (2,6)(3,5), (0,1), (0,1)(4,5,6), (0,1)(4,6,5),  
(0,1)(3,4)(5,6), (0,1)(3,4,5), (0,1)(3,4,6), (0,1)(3,5,4), (0,1)(3,5,6),  
(0,1)(3,5)(4,6), (0,1)(3,6,4), (0,1)(3,6,5), (0,1)(3,6)(4,5), (0,1)(2,3)(5,6),  
(0,1)(2,3)(4,5), (0,1)(2,3)(4,6), (0,1)(2,3,4), (0,1)(2,3,4,5,6), (0,1)(2,3,4,6,5),  
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(0,1)(2,3,6,4,5), (0,1)(2,4,3), (0,1)(2,4,5,6,3), (0,1)(2,4,6,5,3), (0,1)(2,4)(5,6),  
(0,1)(2,4,5), (0,1)(2,4,6), (0,1)(2,4,3,5), (0,1)(2,4,3,5,6), (0,1)(2,4,6,3,5),  
(0,1)(2,4)(3,6), (0,1)(2,4,3,6,5), (0,1)(2,4,5,3,6), (0,1)(2,5,6,4,3), (0,1)(2,5,3),  
(0,1)(2,5,4,6,3), (0,1)(2,5,4), (0,1)(2,5,6), (0,1)(2,5)(4,6), (0,1)(2,5,6,3,4),  
(0,1)(2,5)(3,4), (0,1)(2,5,3,4,6), (0,1)(2,5,3,6,4), (0,1)(2,5,4,3,6),  
(0,1)(2,5)(3,6), (0,1)(2,6,5,4,3), (0,1)(2,6,3), (0,1)(2,6,4,5,3), (0,1)(2,6,4),

(0,1)(2,6,5), (0,1)(2,6)(4,5), (0,1)(2,6,5,3,4), (0,1)(2,6)(3,4), (0,1)(2,6,3,4,5),  
(0,1)(2,6,3,5,4), (0,1)(2,6,4,3,5), (0,1)(2,6)(3,5)

I, (4,5,6), (4,6,5), (3,4)(5,6), (3,4,5), (3,4,6), (3,5,4), (3,5,6), (3,5)(4,6),  
(3,6,4), (3,6,5), (3,6)(4,5), (2,3)(5,6), (2,3)(4,5), (2,3)(4,6), (2,3,4),  
(2,3,4,5,6), (2,3,4,6,5), (2,3,5,6,4), (2,3,5), (2,3,5,4,6), (2,3,6,5,4), (2,3,6),  
(2,3,6,4,5), (2,4,3), (2,4,5,6,3), (2,4,6,5,3), (2,4)(5,6), (2,4,5), (2,4,6),  
(2,4)(3,5), (2,4,3,5,6), (2,4,6,3,5), (2,4)(3,6), (2,4,3,6,5), (2,4,5,3,6),  
(2,5,6,4,3), (2,5,3), (2,5,4,6,3), (2,5,4), (2,5,6), (2,5)(4,6), (2,5,6,3,4),  
(2,5)(3,4), (2,5,3,4,6), (2,5,3,6,4), (2,5,4,3,6), (2,5)(3,6), (2,6,5,4,3), (2,6,3),  
(2,6,4,5,3), (2,6,4), (2,6,5), (2,6)(4,5), (2,6)(5,3,4), (2,6)(3,4), (2,6,3,4,5),  
(2,6,3,5,4), (2,6,4,3,5), (2,6)(3,5), (0,1)(5,6), (0,1)(4,5), (0,1)(4,6), (0,1)(3,4),  
(0,1)(3,4,5,6), (0,1)(3,4,6,5), (0,1)(3,5,6,4), (0,1)(3,5), (0,1)(3,5,4,6),  
(0,1)(3,6,5,4), (0,1)(3,6), (0,1)(3,6,4,5), (0,1)(2,3), (0,1)(2,3)(4,5,6),  
(0,1)(2,3)(4,6,5), (0,1)(2,3,4)(5,6), (0,1)(2,3,4,5), (0,1)(2,3,4,6), (0,1)(2,3,5,4),  
(0,1)(2,3,5,6), (0,1)(2,3,5)(4,6), (0,1)(2,3,6,4), (0,1)(2,3,6,5), (0,1)(2,3,6)(4,5),  
(0,1)(2,4,3)(5,6), (0,1)(2,4,5,3), (0,1)(2,4,6,3), (0,1)(2,4), (0,1)(2,4,5,6),  
(0,1)(2,4,6,5), (0,1)(2,4)(3,5,6), (0,1)(2,4,3,5,6), (0,1)(2,4,3,5), (0,1)(2,4,6)(3,5),  
(0,1)(2,4)(3,6,5), (0,1)(2,4,3,6), (0,1)(2,4,5)(3,6), (0,1)(2,5,4,3), (0,1)(2,5,6,3),  
(0,1)(2,5,3)(4,6), (0,1)(2,5,6,4), (0,1)(2,5), (0,1)(2,5,4,6), (0,1)(2,5,3,4),  
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(0,1)(2,6), (0,1)(2,6,4,5), (0,1)(2,6,3,4), (0,1)(2,6,5)(3,4), (0,1)(2,6)(3,4,5),  
(0,1)(2,6,4)(3,5), (0,1)(2,6)(3,5,4), (0,1)(2,6,3,5)

I, (3,4)(5,6), (3,5,4,6), (3,6,4,5), (2,3)(4,5), (2,3,4,6), (2,3,5,6,4), (2,3,6,5),  
(2,4,6,5,3), (2,4,5,6), (2,4,3,5), (2,4)(3,6), (2,5,6,3), (2,5)(4,6), (2,5,3,4),  
(2,5,4,3,6), (2,6,4,3), (2,6,5,4), (2,6,3,4,5), (2,6)(3,5), (1,2)(5,6), (1,2)(3,4),  
(1,2)(3,5)(4,6), (1,2)(3,6)(4,5), (1,2,3)(4,6,5), (1,2,3,4,5,6), (1,2,3,5),  
(1,2,3,6,4), (1,2,4,5,3), (1,2,4,6), (1,2,4)(3,5,6), (1,2,4,3,6,5), (1,2,5,6,4,3),  
(1,2,5,4), (1,2,5)(3,4,6), (1,2,5,3,6), (1,2,6,3), (1,2,6,4,5), (1,2,6,5,3,4),  
(1,2,6)(3,5,4), (1,3,2)(4,5,6), (1,3,4,6,5,2), (1,3,5,4,2), (1,3,6,2), (1,3)(4,6),  
(1,3,4,5), (1,3,5,6), (1,3,6,5,4), (1,3)(2,4)(5,6), (1,3,2,4), (1,3,5)(2,4,6),  
(1,3,6)(2,4,5), (1,3)(2,5), (1,3,2,5,4,6), (1,3,4)(2,5,6), (1,3,6,4,2,5),  
(1,3)(2,6)(4,5), (1,3,2,6,5), (1,3,4,2,6), (1,3,5,2,6,4), (1,4,6,3,2), (1,4,5,2),  
(1,4,3,5,6,2), (1,4,2)(3,6,5), (1,4,5,6,3), (1,4,6,5), (1,4)(3,5), (1,4,3,6),  
(1,4,2,3), (1,4)(2,3)(5,6), (1,4,6)(2,3,5), (1,4,5)(2,3,6), (1,4,6,2,5,3),  
(1,4,3,2,5), (1,4,2,5,6), (1,4)(2,5)(3,6), (1,4,3)(2,6,5), (1,4,5,3,2,6), (1,4)(2,6),  
(1,4,2,6,3,5), (1,5,3,2), (1,5,4,6,2), (1,5,6,3,4,2), (1,5,2)(3,6,4), (1,5,4,3),  
(1,5,6,4), (1,5,3,4,6), (1,5)(3,6), (1,5,6,2,3), (1,5)(2,3)(4,6), (1,5,2,3,4),  
(1,5,4,2,3,6), (1,5,2,4,6,3), (1,5,6)(2,4,3), (1,5)(2,4), (1,5,3,6,2,4),  
(1,5,3)(2,6,4), (1,5,4)(2,6,3), (1,5,2,6), (1,5)(2,6)(3,4), (1,6,5,4,3,2), (1,6,4,2),  
(1,6,2)(3,4,5), (1,6,3,5,2), (1,6,5,3), (1,6)(4,5), (1,6,3,4), (1,6,4,3,5),  
(1,6,4,5,2,3), (1,6)(2,3), (1,6,5)(2,3,4), (1,6,2,3,5,4), (1,6,2,4,3), (1,6,3,2,4,5),  
(1,6,5,2,4), (1,6)(2,4)(3,5), (1,6,3)(2,5,4), (1,6,4)(2,5,3), (1,6,2,5),  
(1,6)(2,5)(3,4)

\*\*\*\*\*BEGIN FGroupSet - Size=1 \*\*\*\*\*

I, (5,6), (3,4), (3,4)(5,6), (2,5), (2,5,6), (2,5)(3,4), (2,5,6)(3,4), (2,6,5), (2,6),  
(2,6,5)(3,4), (2,6)(3,4), (1,3), (1,3)(5,6), (1,3,4), (1,3,4)(5,6), (1,3)(2,5),  
(1,3)(2,5,6), (1,3,4)(2,5), (1,3,4)(2,5,6), (1,3)(2,6,5), (1,3)(2,6), (1,3,4)(2,6,5),  
(1,3,4)(2,6), (1,4,3), (1,4,3)(5,6), (1,4), (1,4)(5,6), (1,4,3)(2,5), (1,4,3)(2,5,6),  
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(0,1), (0,1)(5,6), (0,1)(3,4), (0,1)(3,4)(5,6), (0,1)(2,5), (0,1)(2,5,6),  
(0,1)(2,5)(3,4), (0,1)(2,5,6)(3,4), (0,1)(2,6,5), (0,1)(2,6), (0,1)(2,6,5)(3,4),  
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(0,1,3)(2,5,6), (0,1,3,4)(2,5), (0,1,3,4)(2,5,6), (0,1,3)(2,6,5), (0,1,3)(2,6),  
(0,1,3,4)(2,6,5), (0,1,3,4)(2,6), (0,1,4,3), (0,1,4,3)(5,6), (0,1,4), (0,1,4)(5,6),  
(0,1,4,3)(2,5), (0,1,4,3)(2,5,6), (0,1,4,3)(2,6,5), (0,1,4)(2,5,6), (0,1,4,3)(2,6,5),  
(0,1,4,3)(2,6), (0,1,4)(2,6,5), (0,1,4)(2,6), (0,3,1), (0,3,1)(5,6), (0,3,4,1),  
(0,3,4,1)(5,6), (0,3,1)(2,5), (0,3,1)(2,5,6), (0,3,4,1)(2,5), (0,3,4,1)(2,5,6),  
(0,3,1)(2,6,5), (0,3,1)(2,6), (0,3,4,1)(2,6,5), (0,3,4,1)(2,6), (0,3), (0,3)(5,6),  
(0,3,4), (0,3,4)(5,6), (0,3)(2,5), (0,3)(2,5,6), (0,3,4)(2,5), (0,3,4)(2,5,6),  
(0,3)(2,6,5), (0,3)(2,6), (0,3,4)(2,6,5), (0,3,4)(2,6), (0,3)(1,4), (0,3)(1,4)(5,6),



(0,3,1,4), (0,3,1,4)(5,6), (0,3)(1,4)(2,5), (0,3)(1,4)(2,5,6), (0,3,1,4)(2,5),  
(0,3,1,4)(2,5,6), (0,3)(1,4)(2,6,5), (0,3)(1,4)(2,6), (0,3,1,4)(2,6,5),  
(0,3,1,4)(2,6), (0,4,3,1), (0,4,3,1)(5,6), (0,4,1), (0,4,1)(5,6), (0,4,3,1)(2,5),  
(0,4,3,1)(2,5,6), (0,4,1)(2,5), (0,4,1)(2,5,6), (0,4,3,1)(2,6,5), (0,4,3,1)(2,6),  
(0,4,1)(2,6,5), (0,4,1)(2,6), (0,4,3), (0,4,3)(5,6), (0,4), (0,4)(5,6), (0,4,3)(2,5),  
(0,4,3)(2,5,6), (0,4)(2,5), (0,4)(2,5,6), (0,4,3)(2,6,5), (0,4,3)(2,6), (0,4)(2,6,5),  
(0,4)(2,6), (0,4,1,3), (0,4,1,3)(5,6), (0,4)(1,3), (0,4)(1,3)(5,6), (0,4,1,3)(2,5),  
(0,4,1,3)(2,5,6), (0,4)(1,3)(2,5), (0,4)(1,3)(2,5,6), (0,4,1,3)(2,6,5),  
(0,4,1,3)(2,6), (0,4)(1,3)(2,6,5), (0,4)(1,3)(2,6)

\*\*\*\*\*BEGIN FGroupSet - Size=1 \*\*\*\*\*

I, (3,4)(5,6), (3,5)(4,6), (3,6)(4,5), (1,2)(4,6), (1,2)(3,4,5,6), (1,2)(3,5),  
(1,2)(3,6,5,4), (1,3)(2,5), (1,3,2,5)(4,6), (1,3,4)(2,5,6), (1,3,6)(2,5,4),  
(1,4,3)(2,6,5), (1,4,5)(2,6,3), (1,4)(2,6), (1,4,2,6)(3,5), (1,5,2,3)(4,6),  
(1,5)(2,3), (1,5,6)(2,3,4), (1,5,4)(2,3,6), (1,6,3)(2,4,5), (1,6,5)(2,4,3),  
(1,6)(2,4), (1,6,2,4)(3,5), (0,1)(4,5), (0,1)(3,4,6,5), (0,1)(3,5,6,4), (0,1)(3,6),  
(0,1,2)(4,6,5), (0,1,2)(3,4,5), (0,1,2)(3,5,6), (0,1,2)(3,6,4), (0,1,3)(2,4,5),  
(0,1,3,2,4,6,5), (0,1,3,5,6,2,4), (0,1,3,6)(2,4), (0,1,4,6,5,2,3), (0,1,4,5)(2,3),  
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(0,2,1)(4,5,6), (0,2,1)(3,4,6), (0,2,1)(3,5,4), (0,2,1)(3,6,5), (0,2)(5,6),  
(0,2)(3,4), (0,2)(3,5,4,6), (0,2)(3,6,4,5), (0,2,6,4,5,1,3), (0,2,6,5)(1,3),  
(0,2,6)(1,3,4), (0,2,6,1,3,5,4), (0,2,5,1,4,6,3), (0,2,5)(1,4,3), (0,2,5,6)(1,4),  
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(0,2,3)(1,6,5), (0,2,3,1,6,4,5), (0,2,3,4)(1,6), (0,2,3,5,4,1,6), (0,3,1)(2,5,4),  
(0,3,2,5,6,4,1), (0,3,4,6,2,5,1), (0,3,6,1)(2,5), (0,3)(2,4), (0,3,2,4)(5,6),  
(0,3,5)(2,4,6), (0,3,6)(2,4,5), (0,3)(1,2,6,4), (0,3,1,2,6,5,4), (0,3,4,5,1,2,6),  
(0,3,5)(1,2,6), (0,3)(1,4,6,2), (0,3,2,1,4,5,6), (0,3,5)(1,4,2), (0,3,6,5,2,1,4),  
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(0,4,5)(2,3,6), (0,4,1,2,5,6,3), (0,4)(1,2,5,3), (0,4,6)(1,2,5), (0,4,3,6,1,2,5),  
(0,4,5,6,2,1,3), (0,4,4,6)(1,3,2), (0,4)(1,3,5,2), (0,4,2,1,3,6,5), (0,4,3)(1,5,6),  
(0,4,6)(1,5,3), (0,4)(1,5), (0,4,1,5)(3,6), (0,4,5,3,1,6,2), (0,4,3,2)(1,6),  
(0,4,2)(1,6,5), (0,4,1,6,3,5,2), (0,5,6,4,2,3,1), (0,5,4,1)(2,3), (0,5,2,3,4,6,1),  
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(0,5,2,1,6,3,4), (0,6,3,1)(2,4), (0,6,5,3,2,4,1), (0,6,1)(2,4,5), (0,6,2,4,3,5,1),  
(0,6,3)(2,5,4), (0,6,4)(2,5,3), (0,6)(2,5), (0,6,2,5)(3,4), (0,6,5,4,1,2,3),  
(0,6,4)(1,2,3), (0,6,1,2,3,4,5), (0,6)(1,2,3,5), (0,6,1,3)(4,5), (0,6)(1,3),  
(0,6,5)(1,3,4), (0,6,4)(1,3,5), (0,6,2)(1,4,3), (0,6,1,4,5,3,2), (0,6,5,2)(1,4),  
(0,6,3,5,1,4,2), (0,6,2,1,5,4,3), (0,6)(1,5,3,2), (0,6,4)(1,5,2), (0,6,3,4,2,1,5)

\*\*\*\*\*BEGIN FGroupSet - Size=1 \*\*\*\*\*

I, (5,6), (4,5), (4,5,6), (4,6,5), (4,6), (3,4), (3,4)(5,6), (3,4,5), (3,4,5,6),  
(3,4,6,5), (3,4,6), (3,5,4), (3,5,6,4), (3,5), (3,5,6), (3,5)(4,6), (3,5,4,6),  
(3,6,5,4), (3,6,4), (3,6,5), (3,6), (3,6,4,5), (3,6)(4,5), (2,3), (2,3)(5,6),  
(2,3)(4,5), (2,3)(4,5,6), (2,3)(4,6,5), (2,3)(4,6), (2,3,4), (2,3,4)(5,6), (2,3,4,5),  
(2,3,4,5,6), (2,3,4,6,5), (2,3,4,6), (2,3,5,4), (2,3,5,6,4), (2,3,5), (2,3,5,6),  
(2,3,5)(4,6), (2,3,5,4,6), (2,3,6,5,4), (2,3,6,4), (2,3,6,5), (2,3,6), (2,3,6,4,5),  
(2,3,6)(4,5), (2,4,3), (2,4,3)(5,6), (2,4,5,3), (2,4,5,6,3), (2,4,6,5,3), (2,4,6,3),  
(2,4), (2,4)(5,6), (2,4,5), (2,4,5,6), (2,4,6,5), (2,4,6), (2,4)(3,5), (2,4)(3,5,6),  
(2,4,3,5), (2,4,3,5,6), (2,4,6,3,5), (2,4,6)(3,5), (2,4)(3,6,5), (2,4)(3,6),  
(2,4,3,6,5), (2,4,3,6), (2,4,5)(3,6), (2,4,5,3,6), (2,5,4,3), (2,5,6,4,3), (2,5,3),  
(2,5,6,3), (2,5,3)(4,6), (2,5,4,6,3), (2,5,4), (2,5,6,4), (2,5), (2,5,6), (2,5)(4,6),  
(2,5,4,6), (2,5,3,4), (2,5,6,3,4), (2,5)(3,4), (2,5,6)(3,4), (2,5)(3,4,6),  
(2,5,3,4,6), (2,5,3,6,4), (2,5,4)(3,6), (2,5)(3,6,4), (2,5,4,3,6), (2,5)(3,6),  
(2,5,3,6), (2,6,5,4,3), (2,6,4,3), (2,6,5,3), (2,6,3), (2,6,4,5,3), (2,6,3)(4,5),  
(2,6,5,4), (2,6,4), (2,6,5), (2,6), (2,6,4,5), (2,6)(4,5), (2,6,5,3,4), (2,6,3,4),  
(2,6,5)(3,4), (2,6)(3,4), (2,6,3,4,5), (2,6)(3,4,5), (2,6,4)(3,5), (2,6,3,5,4),  
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(0,1)(4,5,6), (0,1)(4,6,5), (0,1)(4,6), (0,1)(3,4), (0,1)(3,4)(5,6), (0,1)(3,4,5),  
(0,1)(3,4,5,6), (0,1)(3,4,6,5), (0,1)(3,4,6), (0,1)(3,5,4), (0,1)(3,5,6,4),

(0,1)(3,5), (0,1)(3,5,6), (0,1)(3,5)(4,6), (0,1)(3,5,4,6), (0,1)(3,6,5,4),  
 (0,1)(3,6,4), (0,1)(3,6,5), (0,1)(3,6), (0,1)(3,6,4,5), (0,1)(3,6)(4,5), (0,1)(2,3),  
 (0,1)(2,3)(5,6), (0,1)(2,3)(4,5), (0,1)(2,3)(4,5,6), (0,1)(2,3)(4,6,5),  
 (0,1)(2,3)(4,6), (0,1)(2,3,4), (0,1)(2,3,4)(5,6), (0,1)(2,3,4,5), (0,1)(2,3,4,5,6),  
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 (0,1)(2,3,5,6), (0,1)(2,3,5)(4,6), (0,1)(2,3,5,4,6), (0,1)(2,3,6,5,4), (0,1)(2,3,6,4),  
 (0,1)(2,3,6,5), (0,1)(2,3,6), (0,1)(2,3,6,4,5), (0,1)(2,3,6)(4,5), (0,1)(2,4,3),  
 (0,1)(2,4,3)(5,6), (0,1)(2,4,5,3), (0,1)(2,4,5,6,3), (0,1)(2,4,6,5,3), (0,1)(2,4,6,3),  
 (0,1)(2,4), (0,1)(2,4)(5,6), (0,1)(2,4,5), (0,1)(2,4,5,6), (0,1)(2,4,6,5),  
 (0,1)(2,4,6), (0,1)(2,4)(3,5), (0,1)(2,4)(3,5,6), (0,1)(2,4,3,5), (0,1)(2,4,3,5,6),  
 (0,1)(2,4,6,3,5), (0,1)(2,4,6)(3,5), (0,1)(2,4)(3,6,5), (0,1)(2,4)(3,6),  
 (0,1)(2,4,3,6,5), (0,1)(2,4,3,6), (0,1)(2,4,5)(3,6), (0,1)(2,4,5,3,6), (0,1)(2,5,4,3),  
 (0,1)(2,5,6,4,3), (0,1)(2,5,3), (0,1)(2,5,6,3), (0,1)(2,5,3)(4,6), (0,1)(2,5,4,6,3),  
 (0,1)(2,5,4), (0,1)(2,5,6,4), (0,1)(2,5), (0,1)(2,5,6), (0,1)(2,5)(4,6),  
 (0,1)(2,5,4,6), (0,1)(2,5,3,4), (0,1)(2,5,6,3,4), (0,1)(2,5)(3,4), (0,1)(2,5,6)(3,4),  
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 (0,1)(2,6,3)(4,5), (0,1)(2,6,5,4), (0,1)(2,6,4), (0,1)(2,6,5), (0,1)(2,6),  
 (0,1)(2,6,4,5), (0,1)(2,6)(4,5), (0,1)(2,6,5,3,4), (0,1)(2,6,3,4), (0,1)(2,6,5)(3,4),  
 (0,1)(2,6)(3,4), (0,1)(2,6,3,4,5), (0,1)(2,6)(3,4,5), (0,1)(2,6,4)(3,5),  
 (0,1)(2,6,3,5,4), (0,1)(2,6,4,3,5), (0,1)(2,6)(3,5,4), (0,1)(2,6,3,5), (0,1)(2,6)(3,5)

\*\*\*\*\*BEGIN FGroupSet - Size=1 \*\*\*\*\*

I, (4,5,6), (4,6,5), (3,4)(5,6), (3,4,5), (3,4,6), (3,5,4), (3,5,6), (3,5)(4,6),  
 (3,6,4), (3,6,5), (3,6)(4,5), (2,3)(5,6), (2,3)(4,5), (2,3)(4,6), (2,3,4),  
 (2,3,4,5,6), (2,3,4,6,5), (2,3,5,6,4), (2,3,5), (2,3,5,4,6), (2,3,6,5,4), (2,3,6),  
 (2,3,6,4,5), (2,4,3), (2,4,5,6,3), (2,4,6,5,3), (2,4)(5,6), (2,4,5), (2,4,6),  
 (2,4)(3,5), (2,4,3,5,6), (2,4,6,3,5), (2,4)(3,6), (2,4,3,6,5), (2,4,5,3,6),  
 (2,5,6,4,3), (2,5,3), (2,5,4,6,3), (2,5,4), (2,5,6), (2,5)(4,6), (2,5,6,3,4),  
 (2,5)(3,4), (2,5,3,4,6), (2,5,3,6,4), (2,5,4,3,6), (2,5)(3,6), (2,6,5,4,3), (2,6,3),  
 (2,6,4,5,3), (2,6,4), (2,6,5), (2,6)(4,5), (2,6,5,3,4), (2,6)(3,4), (2,6,3,4,5),  
 (2,6,3,5,4), (2,6,4,3,5), (2,6)(3,5), (1,2)(5,6), (1,2)(4,5), (1,2)(4,6), (1,2)(3,4),  
 (1,2)(3,4,5,6), (1,2)(3,4,6,5), (1,2)(3,5,6,4), (1,2)(3,5), (1,2)(3,5,4,6),  
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 (1,2,3,4)(5,6), (1,2,3,4,5), (1,2,3,4,6), (1,2,3,5,4), (1,2,3,5,6), (1,2,3,5)(4,6),  
 (1,2,3,6,4), (1,2,3,6,5), (1,2,3,6)(4,5), (1,2,4,3)(5,6), (1,2,4,5,3), (1,2,4,6,3),  
 (1,2,4), (1,2,4,5,6), (1,2,4,6,5), (1,2,4)(3,5,6), (1,2,4,3,5), (1,2,4,6)(3,5),  
 (1,2,4)(3,6,5), (1,2,4,3,6), (1,2,4,5)(3,6), (1,2,5,4,3), (1,2,5,6,3), (1,2,5,3)(4,6),  
 (1,2,5,6,4), (1,2,5), (1,2,5,4,6), (1,2,5,3,4), (1,2,5,6)(3,4), (1,2,5)(3,4,6),  
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 (1,3,4,2)(5,6), (1,3,4,5,2), (1,3,4,6,2), (1,3,5,4,2), (1,3,5,6,2), (1,3,5,2)(4,6),  
 (1,3,6,4,2), (1,3,6,5,2), (1,3,6,2)(4,5), (1,3)(5,6), (1,3)(4,5), (1,3)(4,6), (1,3,4),  
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 (1,3,6,4,5), (1,3)(2,4), (1,3)(2,4,5,6), (1,3)(2,4,6,5), (1,3,2,4)(5,6), (1,3,2,4,5),  
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