Number of vertices $n = 4$.
Adjacencies of Graph

1. vertex 1 adjacent to 2 3 4
2. vertex 2 adjacent to 1
3. vertex 3 adjacent to 1
4. vertex 4 adjacent to 1

Size of automorphism group of the graph=6
Full group: $|Aut(polytope)| = 48$
Restricted group: $|Aut(G) \times switch| = 48$
Number of orbits for the full group : 1
List of orbits of facets for the full group: Total number of orbits = 1 Total number of facets = 6

1. Inequality 1 with incidence 4 and stabilizer of size 8. Orbit size is 6 nature: edge inequality e=[1, 4]

(1,2) : 0	(1,3) : 0	(1,4) : 1			