**SUBGROUPS OF A6 ALONG WITH THEIR ORDER**

Subgroup Elements: [ () ]

Order: 1

Subgroup Elements: [ (), (3 4)(5 6) ]

Order: 2

Subgroup Elements: [ (), (3 5)(4 6) ]

Order: 2

Subgroup Elements: [ (), (3 6)(4 5) ]

Order: 2

Subgroup Elements: [ (), (2 3)(5 6) ]

Order: 2

Subgroup Elements: [ (), (2 3)(4 5) ]

Order: 2

Subgroup Elements: [ (), (2 3)(4 6) ]

Order: 2

Subgroup Elements: [ (), (2 4)(5 6) ]

Order: 2

Subgroup Elements: [ (), (2 4)(3 5) ]

Order: 2

Subgroup Elements: [ (), (2 4)(3 6) ]

Order: 2

Subgroup Elements: [ (), (2 5)(4 6) ]

Order: 2

Subgroup Elements: [ (), (2 5)(3 4) ]

Order: 2

Subgroup Elements: [ (), (2 5)(3 6) ]

Order: 2

Subgroup Elements: [ (), (2 6)(4 5) ]

Order: 2

Subgroup Elements: [ (), (2 6)(3 4) ]

Order: 2

Subgroup Elements: [ (), (2 6)(3 5) ]

Order: 2

Subgroup Elements: [ (), (1 2)(5 6) ]

Order: 2

Subgroup Elements: [ (), (1 2)(4,5) ]

Order: 2

Subgroup Elements: [ (), (1 2)(4 6) ]

Order: 2

Subgroup Elements: [ (), (1 2)(3 4) ]

Order: 2

Subgroup Elements: [ (), (1 2)(3 5) ]

Order: 2

Subgroup Elements: [ (), (1 2)(3 6) ]

Order: 2

Subgroup Elements: [ (), (1 3)(5 6) ]

Order: 2

Subgroup Elements: [ (), (1 3)(4 5) ]

Order: 2

Subgroup Elements: [ (), (1 3)(4 6) ]

Order: 2

Subgroup Elements: [ (), (1 3)(2 4) ]

Order: 2

Subgroup Elements: [ (), (1 3)(2 5) ]

Order: 2

Subgroup Elements: [ (), (1 3)(2 6) ]

Order: 2

Subgroup Elements: [ (), (1 4)(5 6) ]

Order: 2

Subgroup Elements: [ (), (1 4)(3 5) ]

Order: 2

Subgroup Elements: [ (), (1 4)(3 6) ]

Order: 2

Subgroup Elements: [ (), (1 4)(2 3) ]

Order: 2

Subgroup Elements: [ (), (1 4)(2 5) ]

Order: 2

Subgroup Elements: [ (), (1 4)(2 6) ]

Order: 2

Subgroup Elements: [ (), (1 5)(4 6) ]

Order: 2

Subgroup Elements: [ (), (1 5)(3 4) ]

Order: 2

Subgroup Elements: [ (), (1 5)(3 6) ]

Order: 2

Subgroup Elements: [ (), (1 5)(2 3) ]

Order: 2

Subgroup Elements: [ (), (1 5)(2 4) ]

Order: 2

Subgroup Elements: [ (), (1 5)(2 6) ]

Order: 2

Subgroup Elements: [ (), (1 6)(4 5) ]

Order: 2

Subgroup Elements: [ (), (1 6)(3 4) ]

Order: 2

Subgroup Elements: [ (), (1 6)(3 5) ]

Order: 2

Subgroup Elements: [ (), (1 6)(2 3) ]

Order: 2

Subgroup Elements: [ (), (1 6)(2 4) ]

Order: 2

Subgroup Elements: [ (), (1 6)(2 5) ]

Order: 2

Subgroup Elements: [ (), (4 5 6), (4 6 5) ]

Order: 3

Subgroup Elements: [ (), (3 4 5), (3 5 4) ]

Order: 3

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Order: 3

Subgroup Elements: [ (), (3 5 6), (3 6 5) ]

Order: 3

Subgroup Elements: [ (), (2 3 4), (2 4 3) ]

Order: 3

Subgroup Elements: [ (), (2 3 5), (2 5 3) ]

Order: 3

Subgroup Elements: [ (), (2 3 6), (2 6 3) ]

Order: 3

Subgroup Elements: [ (), (2 4 5), (2 5 4) ]

Order: 3

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Order: 3

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Order: 3

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Order: 3

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Order: 3

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Order: 3

Subgroup Elements: [ (), (1 3 5), (1 5 3) ]

Order: 3

Subgroup Elements: [ (), (1 3 6), (1 6 3) ]

Order: 3

Subgroup Elements: [ (), (1 4 5), (1 5 4) ]

Order: 3

Subgroup Elements: [ (), (1 4 6), (1 6 4) ]

Order: 3

Subgroup Elements: [ (), (1 5 6), (1 6 5) ]

Order: 3

Subgroup Elements: [ (), (1 2 3)(4 5 6), (1 3 2)(4 6 5) ]

Order: 3

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Order: 3

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Order: 3

Subgroup Elements: [ (), (1 2 4)(3 6 5), (1 4 2)(3 5 6) ]

Order: 3

Subgroup Elements: [ (), (1 2 5)(3 4 6), (1 5 2)(3 6 4) ]

Order: 3

Subgroup Elements: [ (), (1 2 5)(3 6 4), (1 5 2)(3 4 6) ]

Order: 3

Subgroup Elements: [ (), (1 2 6)(3 4 5), (1 6 2)(3 5 4) ]

Order: 3

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Order: 3

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Order: 3

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Order: 3

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Order: 3

Subgroup Elements: [ (), (1 4 6)(2 5 3), (1 6 4)(2 3 5) ]

Order: 3

Subgroup Elements: [ (), (1 4 5)(2 6 3), (1 5 4)(2 3 6) ]

Order: 3

Subgroup Elements: [ (), (1 5 6)(2 3 4), (1 6 5)(2 4 3) ]

Order: 3

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Order: 4

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Order: 4

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Order: 4

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Order: 4

Subgroup Elements: [ (), (2 3)(4 6), (1 5)(4 6), (1 5)(23) ]

Order: 4

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Order: 4

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Order: 4

Subgroup Elements: [ (), (2 5)(4 6), (1 3)(4 6), (1 3)(2 5) ]

Order: 4

Subgroup Elements: [ (), (2 5)(3 4), (1 6)(3 4), (1 6)(2 5) ]

Order: 4

Subgroup Elements: [ (), (2 5)(3 6), (1 4)(3 6), (1 4)(2 5) ]

Order: 4

Subgroup Elements: [ (), (2 6)(4 5), (1 3)(4 5), (1 3)(2 6) ]

Order: 4

Subgroup Elements: [ (), (2 6)(3 4), (1 5)(3 4), (1 5)(2 6) ]

Order: 4

Subgroup Elements: [ (), (2 6)(3 5), (1 4)(3 5), (1 4)(2 6) ]

Order: 4

Subgroup Elements: [ (), (3 4)(5 6), (3 5)(4 6), (3 6)(4 5) ]

Order: 4

Subgroup Elements: [ (), (2 3)(5 6), (2 5)(3 6), (2 6)(3 5) ]

Order: 4

Subgroup Elements: [ (), (2 3)(4 5), (2 4)(3 5), (2 5)(3 4) ]

Order: 4

Subgroup Elements: [ (), (2 3)(4 6), (2 4)(3 6), (2 6)(3 4) ]

Order: 4

Subgroup Elements: [ (), (2 4)(5 6), (2 5)(4 6), (2 6)(4 5) ]

Order: 4

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Order: 4

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Order: 4

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Order: 4

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Order: 4

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Order: 4

Subgroup Elements: [ (), (1 2)(3 6), (1 3)(2 6), (1 6)(2 3) ]

Order: 4

Subgroup Elements: [ (), (1 3)(5 6), (1 5)(3 6), (1 6)(3 5) ]

Order: 4

Subgroup Elements: [ (), (1 3)(4 5), (1 4)(3 5), (1 5)(3 4) ]

Order: 4

Subgroup Elements: [ (), (1 3)(4 6), (1 4)(3 6), (1 6)(3 4) ]

Order: 4

Subgroup Elements: [ (), (1 4)(5 6), (1 5)(4 6), (1 6)(4 5) ]

Order: 4

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Order: 4

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Order: 4

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Order: 4

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Order: 4

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Order: 4

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Order: 4

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Order: 4

Subgroup Elements: [ (), (2 4)(3 5), (1 6)(2 3 4 5), (1 6)(2 5 4 3) ]

Order: 4

Subgroup Elements: [ (), (2 4)(3 6), (1 5)(2 3 4 6), (1 5)(2 6 4 3) ]

Order: 4

Subgroup Elements: [ (), (2 5)(4 6), (1 3)(2 4 5 6), (1 3)(2 6 5 4) ]

Order: 4

Subgroup Elements: [ (), (2 5)(3 4), (1 6)(2 3 5 4), (1 6)(2 4 5 3) ]

Order: 4

Subgroup Elements: [ (), (2 5)(3 6), (1 4)(2 3 5 6), (1 4)(2 6 5 3) ]

Order: 4

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Order: 4

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Order: 4

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Order: 4

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Order: 4

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Order: 4

Subgroup Elements: [ (), (1 2)(4 6), (1 4 2 6)(3 5), (1 6 2 4)(3 5) ]

Order: 4

Subgroup Elements: [ (), (1 2)(3 4), (1 3 2 4)(5 6), (1 4 2 3)(5 6) ]

Order: 4

Subgroup Elements: [ (), (1 2)(3 5), (1 3 2 5)(4 6), (1 5 2 3)(4 6) ]

Order: 4

Subgroup Elements: [ (), (1 2)(3 6), (1 3 2 6)(4 5), (1 6 2 3)(4 5) ]

Order: 4

Subgroup Elements: [ (), (1 2 3 4)(5 6), (1 3)(2 4), (1 4 3 2)(5 6) ]

Order: 4

Subgroup Elements: [ (), (1 2 3 5)(4 6), (1 3)(2 5), (1 5 3 2)(4 6) ]

Order: 4

Subgroup Elements: [ (), (1 2 3 6)(4 5), (1 3)(2 6), (1 6 3 2)(4 5) ]

Order: 4

Subgroup Elements: [ (), (1 2 4 3)(5 6), (1 3 4 2)(5 6), (1 4)(2 3) ]

Order: 4

Subgroup Elements: [ (), (1 2 4 6)(3 5), (1 4)(2 6), (1 6 4 2)(3 5) ]

Order: 4

Subgroup Elements: [ (), (1 2 4 5)(3 6), (1 4)(2 5), (1 5 4 2)(3 6) ]

Order: 4

Subgroup Elements: [ (), (1 2 5 3)(4 6), (1 3 5 2)(4 6), (1 5)(2 3) ]

Order: 4

Subgroup Elements: [ (), (1 2 5 6)(3 4), (1 5)(2 6), (1 6 5 2)(3 4) ]

Order: 4

Subgroup Elements: [ (), (1 2 5 4)(3 6), (1 4 5 2)(3 6), (1 5)(2 4) ]

Order: 4

Subgroup Elements: [ (), (1 2 6 3)(4 5), (1 3 6 2)(4 5), (1 6)(2 3) ]

Order: 4

Subgroup Elements: [ (), (1 2 6 5)(3 4), (1 5 6 2)(3 4), (1 6)(2 5) ]

Order: 4

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Order: 4

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Order: 4

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Order: 4

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Order: 4

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Order: 4

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Order: 4

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Order: 4

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Order: 4

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Order: 4

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Order: 4

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Order: 4

Subgroup Elements: [ (), (2 3 4 5 6), (2 4 6 3 5), (2 5 3 6 4), (2 6 5 4 3) ]

Order: 5

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Order: 5

Subgroup Elements: [ (), (2 3 5 6 4), (2 4 6 5 3), (2 5 4 3 6), (2 6 3 4 5) ]

Order: 5

Subgroup Elements: [ (), (2 3 5 4 6), (2 4 3 6 5), (2 5 6 3 4), (2 6 4 5 3) ]

Order: 5

Subgroup Elements: [ (), (2 3 6 5 4), (2 4 5 6 3), (2 5 3 4 6), (2 6 4 3 5) ]

Order: 5

Subgroup Elements: [ (), (2 3 6 4 5), (2 4 3 5 6), (2 5 4 6 3), (2 6 5 3 4) ]

Order: 5

Subgroup Elements: [ (), (1 2 3 4 5), (1 3 5 2 4), (1 4 2 5 3), (1 5 4 3 2) ]

Order: 5

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Order: 5

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Order: 5

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Order: 5

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Order: 5

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Order: 5

Subgroup Elements: [ (), (1 2 4 5 3), (1 3 5 4 2), (1 4 3 2 5), (1 5 2 3 4) ]

Order: 5

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Order: 5

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Order: 5

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Order: 5

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Order: 5

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Order: 5

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Order: 5

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Order: 5

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Order: 5

Subgroup Elements: [ (), (1 2 6 4 3), (1 3 4 6 2), (1 4 2 3 6), (1 6 3 2 4) ]

Order: 5

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Order: 5

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Order: 5

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Order: 5

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Order: 5

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Order: 5

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Order: 5

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Order: 5

Subgroup Elements: [ (), (4 5 6), (4 6 5), (2 3)(5 6), (2 3)(4 5), (2 3)(4 6) ]

Order: 6

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Order: 6

Subgroup Elements: [ (), (4 5 6), (4 6 5), (1 3)(5 6), (1 3)(4 5), (1 3)(4 6) ]

Order: 6

Subgroup Elements: [ (), (3 4)(5 6), (2 3)(5 6), (2 3 4), (2 4 3), (2 4)(5 6) ]

Order: 6

Subgroup Elements: [ (), (3 4)(5 6), (2 5 6), (2 5)(3 4), (2 6 5), (2 6)(3 4) ]

Order: 6

Subgroup Elements: [ (), (3 4)(5 6), (1 3)(5 6), (1 3 4), (1 4 3), (1 4)(5 6) ]

Order: 6

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Order: 6

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Order: 6

Subgroup Elements: [ (), (2 4 5), (2 5 4), (1 3)(4 5), (1 3)(2 4), (1 3)(2 5) ]

Order: 6

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Order: 6

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Order: 6

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Order: 6

Subgroup Elements: [ (), (2 4)(3 5), (1 2)(3 5), (1 2 4), (1 4 2), (1 4)(3 5) ]

Order: 6

Subgroup Elements: [ (), (2 4)(3 5), (1 3 5), (1 3)(2 4), (1 5 3), (1 5)(2 4) ]

Order: 6

Subgroup Elements: [ (), (2 4)(3 6), (1 2)(3 6), (1 2 4), (1 4 2), (1 4)(3 6) ]

Order: 6

Subgroup Elements: [ (), (2 4)(3 6), (1 3 6), (1 3)(2 4), (1 6 3), (1 6)(2 4) ]

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Order: 6

Subgroup Elements: [ (), (2 5)(3 6), (1 3 6), (1 3)(2 5), (1 6 3), (1 6)(2 5) ]

Order: 6

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Order: 6

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(1 6)(2 5) ]

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(1 5)(2 6) ]

Order: 6

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(1 5 4)(2 3 6) ]

Order: 6

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(1 3)(4 6) ]

Order: 6

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(1 3)(4 5) ]

Order: 6

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(1 6)(2 4) ]

Order: 6

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(1 6 5)(2 4 3) ]

Order: 6

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(1 3)(4 6) ]

Order: 6

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(1 3)(5 6) ]

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(1 5 3)(2 4 6) ]

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Order: 8

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Order: 8

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Order: 8

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Order: 8

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Order: 8

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Order: 8

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Order: 8

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Order: 8

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Order: 8

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Order: 8

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Order: 8

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Order: 8

Subgroup Elements: [ (), (2 3)(4 5), (2 4)(3 5), (2 5)(3 4), (1 6)(4 5), (1 6)(2 3), (1 6)(2 4 3 5), (1 6)(2 5 3 4) ]

Order: 8

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Order: 8

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Order: 8

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Order: 8

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Order: 8

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Order: 8

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Order: 8

Subgroup Elements: [ (), (2 3)(4 6), (2 4)(3 6), (2 6)(3 4), (1 5)(3 6),

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

Order: 8

Subgroup Elements: [ (), (2 3)(4 6), (1 2)(3 5), (1 2 5 3)(4 6), (1 3 5 2)(4 6), (1 3)(2 5), (1 5)(4 6), (1 5)(2 3) ]

Order: 8

Subgroup Elements: [ (), (2 3)(4 6), (1 4)(5 6), (1 4 5 6)(2 3), (1 5)(4 6),

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Order: 8

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Order: 8

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Order: 8

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Order: 8

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Order: 8

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Order: 8

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Order: 8

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Order: 8

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Order: 8

Subgroup Elements: [ (), (2 5)(4 6), (1 2)(3 5), (1 2 3 5)(4 6), (1 3)(4 6),

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Order: 8

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Order: 8

Subgroup Elements: [ (), (2 5)(3 4), (1 2)(5 6), (1 2 6 5)(3 4), (1 5 6 2)(3 4),

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

Order: 8

Subgroup Elements: [ (), (2 5)(3 4), (1 3)(4 6), (1 3 6 4)(2 5), (1 4)(3 6),

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Order: 8

Subgroup Elements: [ (), (2 5)(3 6), (1 2)(4 5), (1 2 4 5)(3 6), (1 4)(3 6),

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

Order: 8

Subgroup Elements: [ (), (2 5)(3 6), (1 3)(4 6), (1 3 4 6)(2 5), (1 4)(3 6),

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Order: 8

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Order: 8

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Order: 8

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Order: 8

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Order: 8

Subgroup Elements: [ (), (2 6)(3 5), (1 2)(4 6), (1 2 4 6)(3 5), (1 4)(3 5),

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

Order: 8

Subgroup Elements: [ (), (2 6)(3 5), (1 3)(4 5), (1 3 4 5)(2 6), (1 4)(3 5),

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

Order: 8

Subgroup Elements: [ (), (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) ]

Order: 9

Subgroup Elements: [ (), (3 4 5), (3 5 4), (1 2 6), (1 2 6)(3 4 5), (1 2 6)(3 5 4),

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

Order: 9

Subgroup Elements: [ (), (3 4 6), (3 6 4), (1 2 5), (1 2 5)(3 4 6), (1 2 5)(3 6 4),

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

Order: 9

Subgroup Elements: [ (), (3 5 6), (3 6 5), (1 2 4), (1 2 4)(3 5 6), (1 2 4)(3 6 5),

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

Order: 9

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

Order: 9

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Order: 9

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Order: 9

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

Order: 9

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Order: 9

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

Order: 9

Subgroup Elements: [ (), (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) ]

Order: 10

Subgroup Elements: [ (), (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) ]

Order: 10

Subgroup Elements: [ (), (3 4)(5 6), (1 3)(4 5), (1 3 5 6 4), (1 4 6 5 3), (1 4)(3 6), (1 5)(4 6), (1 5 4 3 6), (1 6 3 4 5), (1 6)(3 5) ]

Order: 10

Subgroup Elements: [ (), (3 4)(5 6), (1 3)(4 6) (1 3 6 5 4), (1 4 5 6 3), (1 4)(3 5), (1 5 3 4 6 ), (1 5)(3 6), (1 6)(4 5), (1 6 4 3 5) ]

Order: 10

Subgroup Elements: [ (), (3 5)(4 6), (2 3)(5 6), (2 3 6 4 5), (2 4 3 5 6), (2 4)(3 6), (2 5 4 6 3), (2 5)(3 4), (2 6)(4 5), (2 6 5 3 4) ]

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Order: 10

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Order: 10

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Order: 10

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Order: 10

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Order: 10

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Order: 10

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Order: 10

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Order: 10

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Order: 10

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Order: 10

Subgroup Elements: [ (), (2 4)(5 6), (1 2)(4 5), (1 2 5 6 4), (1 4 6 5 2), (1 4)(2 6), (1 5)(4 6), (1 5 4 2 6), (1 6 2 4 5), (1 6)(2 5) ]

Order: 10

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Order: 10

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Order: 10

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Order: 10

Subgroup Elements: [ (), (2 4)(3 6), (1 2)(4 6), (1 2 6 3 4), (1 3 2 4 6), (1 3)(2 6), (1 4 3 6 2), (1 4) (2 3), (1 6)(3 4), (1 6 4 2 3) ]

Order: 10

Subgroup Elements: [ (), (2 4)(3 6), (1 2)(3 4), (1 2 3 6 4), (1 3)(4 6), (1 3 4 2 6), (1 4 6 3 2), (1 4)(2 6), (1 6)(2 3), (1 6 2 4 3) ]

Order: 10

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Order: 10

Subgroup Elements: [ (), (2 5)(4 6), (1 2)(4 5), (1 2 4 6 5), (1 4)(5 6), (1 4 5 2 6), (1 5 6 4 2), (1 5)(2 6), (1 6)(2 4), (1 6 2 5 4) ]

Order: 10

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Order: 10

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Order: 10

Subgroup Elements: [ (), (2 5)(3 6), (1 2)(5 6), (1 2 6 3 5), (1 3 2 5 6), (1 3)(2 6), (1 5 3 6 2), (1 5)(2 3), (1 6)(3 5), (1 6 5 2 3) ]

Order: 10

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Order: 10

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Order: 10

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Order: 10

Subgroup Elements: [ (), (2 6)(3 4), (1 2)(4 6), (1 2 4 3 6), (1 3)(2 4), (1 3 2 6 4), (1 4)(3 6), (1 4 6 2 3), (1 6 3 4 2), (1 6)(2 3) ]

Order: 10

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Order: 10

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Order: 10

Subgroup Elements: [ (), (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) ]

Order: 12

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Order: 12

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Order: 12

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Order: 12

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Order: 12

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Order: 12

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Order: 12

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Order: 12

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Order: 12

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Order: 12

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Order: 12

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Order: 12

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Order: 12

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(1 5 6), (1 5)(2 6), (1 6 2), (1 6 5), (1 6)(2 5) ]

Order: 12

Subgroup Elements: [ (), (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) ]

Order: 12

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

Order: 12

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

Order: 12

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

Order: 12

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

Order: 12

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Order: 12

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Order: 12

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Order: 12

Subgroup Elements: [ (), (2 5)(4 6), (1 2 4)(3 5 6), (1 2 6)(3 5 4), (1 3)(4 6),

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

Order: 12

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

Order: 12

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Order: 12

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

Order: 12

Subgroup Elements: [ (), (2 6)(3 4), (1 2 3)(4 5 6), (1 2 4)(3 5 6), (1 3 2)(4 6 5), (1 3 6)(2 5 4), (1 4 2)(3 6 5), (1 4 6)(2 5 3), (1 5)(3 4), (1 5)(2 6), (1 6 4)(2 3 5), (1 6 3)(2 4 5) ]

Order: 12

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Order: 12

Subgroup Elements: [ (), (4 5 6), (4 6 5), (2 3)(5 6), (2 3)(4 5), (2 3)(4 6),

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

Order: 18

Subgroup Elements: [ (), (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) ]

Order: 18

Subgroup Elements: [ (), (3 4)(5 6), (2 5 6), (2 5)(3 4), (2 6 5), (2 6)(3 4),

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

Order: 18

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Order: 18

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Order: 18

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Order: 18

Subgroup Elements: [ (), (3 5)(4 6), (2 3)(4 6), (2 3 5), (2 5 3), (2 5)(4 6),

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Order: 18

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Order: 18

Subgroup Elements: [ (), (3 6)(4 5), (2 3)(4 5), (2 3 6), (2 6 3), (2 6)(4 5),

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Order: 18

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Order: 18

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

Order: 24

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

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

Order: 24

Subgroup Elements: [ (), (4 5 6), (4 6 5), (2 4)(5 6), (2 4 5), (2 4 6), (2 5 4),

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

Order: 24

Subgroup Elements: [ (), (3 4)(5 6), (2 3)(5 6), (2 3 4), (2 4 3), (2 4)(5 6),

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Order: 24

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Order: 24

Subgroup Elements: [ (), (3 4 5), (3 5 4), (2 3)(4 5), (2 3 4), (2 3 5), (2 4 3),

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Order: 24

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Order: 24

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Order: 360

**THE NO. OF SUBGROUPS A6 OF A WITHIN EACH ORDER**

|  |  |  |
| --- | --- | --- |
| **S/N** | **SUBGROUPS** | **NO.** |
| **1.** | Subgroup of order 1 | 1 |
| **2.** | Subgroups of order 2 | 45 |
| **3.** | Subgroups of order 3 | 40 |
| **4.** | Subgroups of order 4 | 75 |
| **5.** | Subgroups of order 5 | 36 |
| **6.** | Subgroups of order 6 | 120 |
| **7.** | Subgroups of order 8 | 45 |
| **8.** | Subgroups of order 9 | 10 |
| **9.** | Subgroups of order 10 | 36 |
| **10.** | Subgroups of order 12 | 30 |
| **11.** | Subgroups of order 18 | 10 |
| **12.** | Subgroups of order 24 | 30 |
| **13.** | Subgroups of order 36 | 10 |
| **14.** | Subgroups of order 60 | 12 |
| **15.** | Subgroups of order 360 | 1 |
|  | **TOTAL NO. OF SUBGROUPS** | **501** |

Sample of the chain

Chain 1

{e} ≤ {(e),(12)(34)} ≤ {(e),(34)(56),(12)(56),(12)(34)} ≤ {(e),(34)(56),(35)(46),(36)(45),(12)(56), (12)(34),(12)(3546),(12)(3645)} ≤ {(e),(34)(56),(35)(46),(36)(45),(12)(56),(12)(34),(12)(3546), (12)(3645),(13)(24),(1324)(56),(135)(246),(136)(245),(1423)(56),(14)(23),(146)(235),(145)(236), (153)(264),(154)(263),(15)(26),(1526)(34),(163)(254),(164)(253),(16)(25),(1625)(34)} ≤ A6