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H1 (4/4 points)

 $G = \{e, (12), (34), (12)(34)\}$. Let $a_1 = e, a_2 = (12), a_3 = (34), a_4 = (12)(34)$ $c_1(a_1) =$ $c_1(a_2) =$ $c_1(a_3) =$ $c_1(a_4) =$

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H2 (1/1 point)

Given group G is the permutation group on top of the target set $[1, n]$, G contains 24 permutations. Under the effect of G , there are 4 elements in the equivalence class of 1, so that the number of stabilizer of 1 is ____

Answer: 6

EXPLANATION

$|E1| * |Z1| = |G|$, $|E1| = 4$, $|G| = 24$, so $|Z1| = 6$

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