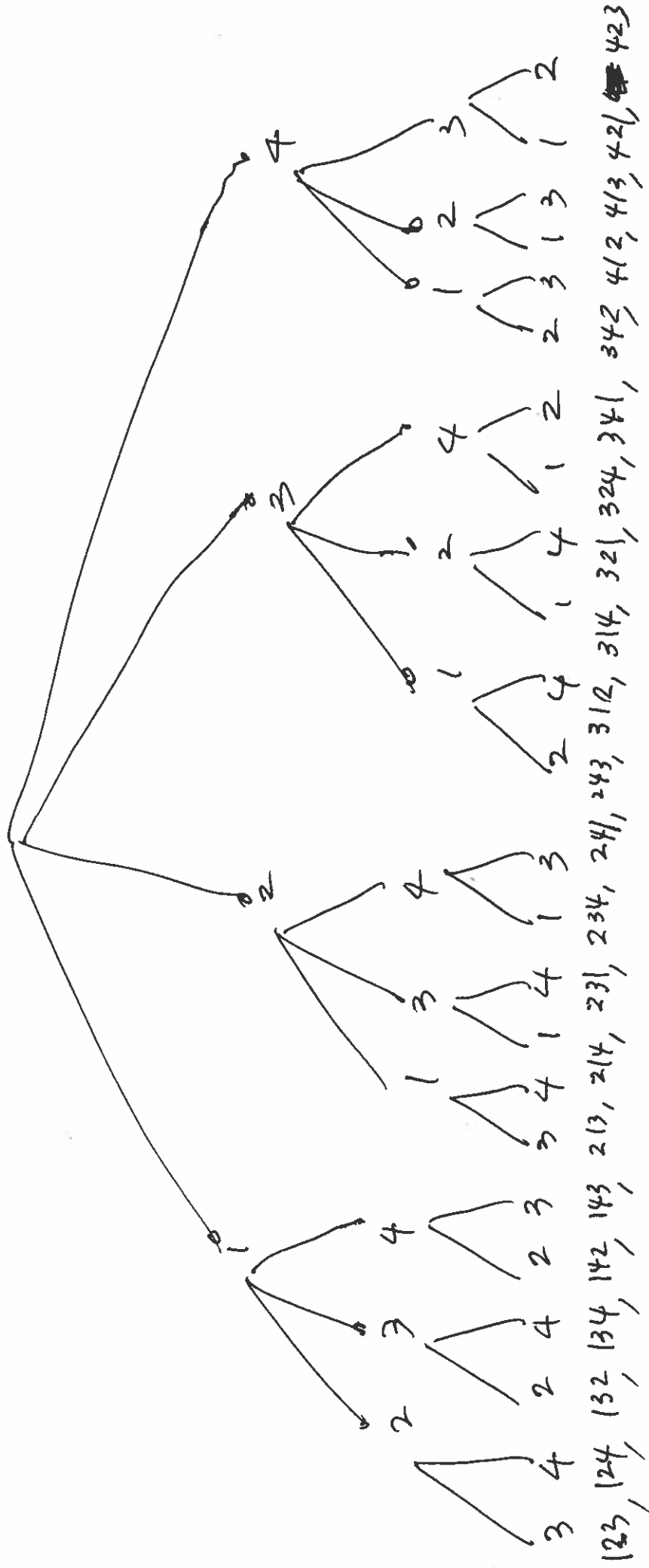


$$P(4,3) = C(4,3)3!$$

$$P = \{1, 2, 3, 4\}$$

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123, 132, 213, 231, 312, 321 $\leftarrow$ Group 1 : all permutations based on $\{1, 2, 3\}$

124, 142, 214, 241, 412, 421 $\leftarrow$ Group 2 : all permutations based on $\{1, 2, 4\}$

134, 143, 314, 341, 413, 431 $\leftarrow$ Group 3 : all permutations based on $\{1, 3, 4\}$

234, 243, 324, 342, 423, 432 $\leftarrow$ Group 4 : all permutations based on $\{2, 3, 4\}$