

代幾 I 計算演習 [問題] (2006/11/09)

問. 次の置換を互換の積の形で書き表しなさい

Q.1

$$\begin{pmatrix} 1 & 2 & 3 & 4 & 5 \\ 1 & 4 & 5 & 2 & 3 \end{pmatrix}$$

Q.2

$$\begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 \\ 6 & 3 & 5 & 2 & 7 & 1 & 4 \end{pmatrix}$$

Q.3

$$\begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 \\ 3 & 6 & 2 & 4 & 1 & 7 & 5 \end{pmatrix}$$

Q.4

$$\begin{pmatrix} 1 & 2 & 3 & 4 & 5 \\ 3 & 1 & 5 & 4 & 2 \end{pmatrix}$$

Q.5

$$\begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 \\ 1 & 2 & 5 & 6 & 4 & 7 & 8 & 3 \end{pmatrix}$$

Q.6

$$\begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 \\ 3 & 2 & 5 & 4 & 7 & 6 & 1 \end{pmatrix}$$

Q.7

$$\begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 \\ 7 & 8 & 2 & 1 & 5 & 6 & 3 & 4 \end{pmatrix}$$

Q.8

$$\begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 \\ 6 & 4 & 8 & 2 & 1 & 7 & 3 & 5 \end{pmatrix}$$

Q.9

$$\begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 \\ 7 & 8 & 3 & 5 & 2 & 6 & 1 & 4 \end{pmatrix}$$

Q.10

$$\begin{pmatrix} 1 & 2 & 3 & 4 & 5 \\ 2 & 4 & 3 & 5 & 1 \end{pmatrix}$$

Q.11

$$\begin{pmatrix} 1 & 2 & 3 & 4 & 5 \\ 1 & 2 & 4 & 5 & 3 \end{pmatrix}$$

Q.12

$$\begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 \\ 5 & 4 & 6 & 2 & 3 & 1 \end{pmatrix}$$

Q.13

$$\begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 \\ 4 & 3 & 2 & 6 & 1 & 5 & 7 \end{pmatrix}$$

Q.14

$$\begin{pmatrix} 1 & 2 & 3 & 4 & 5 \\ 3 & 2 & 5 & 4 & 1 \end{pmatrix}$$

Q.15

$$\begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 \\ 5 & 4 & 2 & 7 & 1 & 6 & 3 \end{pmatrix}$$

Q.16

$$\begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 \\ 5 & 7 & 6 & 2 & 3 & 4 & 8 & 1 \end{pmatrix}$$

Q.17

$$\begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 \\ 2 & 4 & 1 & 7 & 3 & 6 & 5 & 8 \end{pmatrix}$$

Q.18

$$\begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 \\ 1 & 3 & 4 & 5 & 2 & 6 \end{pmatrix}$$

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A.1	(3, 5)(2, 4)	A.10	(4, 5)(2, 5)(1, 5)
A.2	(5, 7)(4, 7)(3, 4)(2, 4)(1, 6)	A.11	(4, 5)(3, 5)
A.3	(6, 7)(5, 7)(3, 5)(2, 3)(1, 5)	A.12	(5, 6)(3, 5)(2, 4)(1, 6)
A.4	(3, 5)(2, 5)(1, 2)	A.13	(5, 6)(4, 5)(2, 3)(1, 5)
A.5	(7, 8)(6, 8)(5, 8)(4, 5)(3, 8)	A.14	(3, 5)(1, 5)
A.6	(5, 7)(3, 7)(1, 7)	A.15	(4, 7)(3, 7)(2, 3)(1, 5)
A.7	(7, 8)(4, 8)(3, 7)(2, 3)(1, 4)	A.16	(7, 8)(6, 8)(5, 8)(4, 6)(3, 5)(2, 4)(1, 8)
A.8	(7, 8)(6, 8)(5, 8)(3, 7)(2, 4)(1, 5)	A.17	(5, 7)(4, 5)(3, 5)(2, 3)(1, 3)
A.9	(5, 8)(4, 8)(2, 5)(1, 7)	A.18	(4, 5)(3, 5)(2, 5)