

Nobruite id permutace $\pi = \begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 \\ 3 & 4 & 7 & 2 & 1 & 3 & 6 \end{pmatrix}$

$$\text{id} = \begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 \\ 1 & 2 & 3 & 4 & 5 & 6 \end{pmatrix} = (1)(2)(3)(4)(5)(6)$$

nijuneri k takom, $\pi \circ \pi \circ \dots \circ \pi =$

$$= \pi^k = \text{id}$$

Plati: $k = \text{NSN}(c_1, c_2, \dots, c_m)$

$$\pi = (1, 5)(2, 4)(3, 7, 6)$$

$$k = \text{NSN}(2, 2, 3) = 6$$

$$\pi \circ \pi \circ \pi \circ \pi \circ \pi \circ \pi = \pi^6 = \text{id}$$

Nalezněte řád permutace $\pi = \begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 \\ 5 & 4 & 7 & 2 & 1 & 3 & 6 \end{pmatrix}$

$$\text{id} = \begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 \\ 1 & 2 & 3 & 4 & 5 & 6 & 7 \end{pmatrix} = (1)(2)(3)(4)(5)(6)(7)$$

nejmenší k takové, že $\underbrace{\pi \circ \pi \circ \dots \circ \pi}_k =$

$$= \pi^k = \text{id}$$

Plati: $k = \text{NSN}(c_1, c_2, \dots, c_m)$

$$\pi = (1, 5)(2, 4)(3, 7, 6)$$

$$k = \text{NSN}(2, 2, 3) = 6$$

$$\pi \circ \pi \circ \pi \circ \pi \circ \pi \circ \pi = \pi^6 = \text{id}$$