

$$I_1 = \{1, \dots, n\}$$

$$I_2 = \{1, \dots, \frac{n}{2}\}$$

$$I_3 = \{\frac{n}{2} + 1, \dots, n\}$$

$$I_4 = \{1, \dots, \frac{n}{4}\}$$

$$I_5 = \{\frac{n}{4} + 1, \dots, \frac{n}{2}\}$$

$$I_6 = \{\frac{n}{2} + 1, \dots, \frac{3n}{4}\}$$

$$I_7 = \{\frac{3n}{4} + 1, \dots, n\}$$

 I_8 I_9 I_{10} I_{11} I_{12} I_{13} I_{14} I_{15}