

Array-7.cpp

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Product & Prefix

$$\{1, 2, 3, 4\} \quad n=4$$

$$\text{ans}(n, 1) \Rightarrow \{1, 1, 1, 1, \dots, n\}$$

$$i=0;$$

$$\text{ans}[0] = \text{Pref}_{in} = 1$$

$$\text{Pref}_{in} = 1 \times 1 = 1$$

$$i=1,$$

$$\text{ans}[1] = 1$$

$$\text{Pref}_{in} = 1 \times 2 = 2$$

$$i=2$$

$$\text{ans}[2] = 3$$

$$\text{Pref}_{in} = 3 \times 2 = 6$$

$$i=3$$

$$\text{ans}[3] = 4$$

$$\text{Pref}_{in} = 4 \times 6 = 24$$

Loop ends

$$\text{Suff}_{in} = 1$$

$$i=3,$$

$$\text{ans}[0] = 6 \times 1 = 6$$

$$\text{Suff}_{in} = 21 \times 4 = 24$$

$$i=2,$$

$$\text{ans}[1] = 2 \times 4 = 8$$

$$\text{Suff}_{in} = 4 \times 3 = 12$$

$$i=2$$

$$\text{ans}[2] = 1 \times 12 = 12$$

$$\text{Suff}_{in} = 12 \times 2 = 24$$

$$i=3$$

$$\text{ans}[3] = 1 \times 24 = 24$$

$$\text{Suff}_{in} = 24 \times 1 = 24$$