

Successor and Predecessor

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Successor

Successor is the number that comes just after the number.

That is, greater than the number.

$$\text{Successor} = \text{Number} + 1$$

Predecessor

Predecessor is the number that comes just before the number.

That is, less than the number.

$$\text{Predecessor} = \text{Number} - 1$$

For example:

44 45 46
 ↓
 Given Number

44 45 46
 ↓
Predecessor

$$\text{Predecessor} = \text{Number} - 1$$

$$\text{Predecessor} = 45 - 1 = 44$$

44 45 46
 ↓
 Successor

$$\text{Successor} = \text{Number} + 1$$

$$\text{Successor} = 45 + 1 = 46$$



Example 1:

Find the Successor of the number 2000

$$\text{Successor} = \text{Number} + 1$$

$$\text{Successor} = 2000 + 1$$

$$= 2001$$

The successor of 2000 is 2001

Example 2:

Find the Successor of the number 561

$$\text{Successor} = \text{Number} + 1$$

$$\text{Successor} = 561 + 1$$

$$= 562$$

The successor of 561 is 562

Example 3:

Find the predecessor of the number 895

$$\text{Predecessor} = \text{Number} - 1$$

$$\text{Predecessor} = 895 - 1$$

$$= 894$$

The predecessor of 895 is 894

Example 4:

Find the predecessor of the number 7000

$$\text{Predecessor} = \text{Number} - 1$$

$$\text{Predecessor} = 7000 - 1$$

$$= 6999$$

The predecessor of 7000 is 6999



Example 5:

Find the predecessor and successor of the number 599

$$\text{Predecessor} = \text{Number} - 1$$

$$\begin{aligned}\text{Predecessor} &= 599 - 1 \\ &= 598\end{aligned}$$

$$\text{Successor} = \text{Number} + 1$$

$$\begin{aligned}\text{Successor} &= 599 + 1 \\ &= 600\end{aligned}$$

The predecessor of 599 is 598

The Successor of 599 is 600

Example 6:

Find the predecessor and successor of the number 2089

$$\text{Predecessor} = \text{Number} - 1$$

$$\begin{aligned}\text{Predecessor} &= 2089 - 1 \\ &= 2088\end{aligned}$$

$$\text{Successor} = \text{Number} + 1$$

$$\begin{aligned}\text{Successor} &= 2089 + 1 \\ &= 2090\end{aligned}$$

The predecessor of 2089 is 2088

The Successor of 2089 is 2090

