

## 27.2 Extracting Character String Data from the Left/Right

### LEFT(\_E), RIGHT(\_E)

**FX5S    FX5UJ    FX5U    FX5UC**

- **LEFT(\_E)**: These functions output specified number of characters from the left of input character string data.
- **RIGHT(\_E)**: These functions output specified number of characters from the right of input character string data.

Ladder diagram, FBD/LD	Structured text
<p>[Without EN/ENO]</p> <p>[With EN/ENO]</p>	<p>[Without EN/ENO]</p> <pre>d:=LEFT(s,n);</pre> <p>[With EN/ENO]</p> <pre>d:=LEFT_E(EN,ENO,s,n);</pre>

#### Setting data

#### ■ Descriptions, types, and data types

Argument	Description	Type	Data type
EN	Execution condition (TRUE: Execution, FALSE: Stop)	Input variable	BOOL
s(IN)	Input	Input variable	STRING(255)
n(L)	Specification of number of characters to be extracted	Input variable	INT
ENO	Output status (TRUE: Normal, FALSE: Abnormal)	Output variable	BOOL
d(LEFT(_E) / RIGHT(_E))	Output	Output variable	STRING(255)

#### Processing details

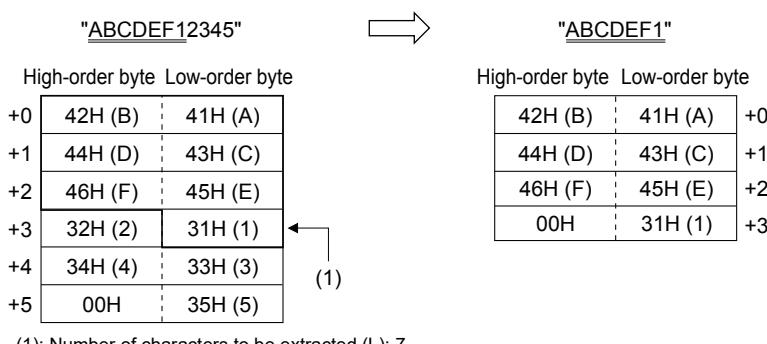
#### ■ Operation processing

##### • **LEFT(\_E)**

These functions output the data for the specified number of characters from the left of a character string input to (s) from (d). The value input to (n) specifies the number of characters to be extracted.

**Ex.**

When the value input to (n) is 7

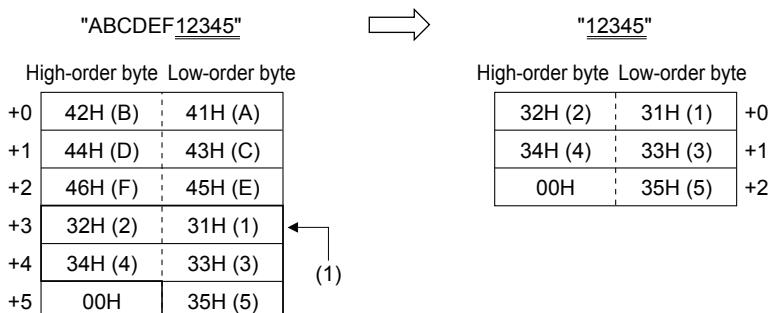


- **RIGHT(\_E)**

These functions output the data for the specified number of characters from the right of a character string input to (s) from (d). The value input to (n) specifies the number of characters to be extracted.

**Ex.**

When the value input to (n) is 5



(1): Number of characters to be extracted (L): 5

- A value input to (s) is the STRING type data value and within the range from 0 to 255 byte(s).
- A value input to (n) is the INT type data value and within the range from 0 to 255. (However, the value must be within the number of characters of the character string to be input to (s).)

## ■Operation result

### 1. Function without EN/ENO

The operation processing is executed. The operation output value is output from (d).

### 2. Function with EN/ENO

The following table lists the execution conditions and operation results.

Execution condition	Operation result	
EN	ENO	(d)
TRUE (Executes operation)	TRUE	Operation output value
FALSE (Stops operation)	FALSE <sup>*1</sup>	Indefinite value

\*1 When FALSE is output from ENO, data output from (d) is undefined. In that case, modify a program so that the data output from (d) is not used.

## Operation error

There is no operation error.