

$$\underline{A} := \begin{pmatrix} 1 & 4 & 7 \\ 2 & 5 & 8 \\ 3 & 6 & 9 \end{pmatrix}$$

$$\underline{B} := \begin{pmatrix} 10 & 13 & 16 \\ 11 & 14 & 17 \\ 12 & 15 & 18 \end{pmatrix}$$

$$\underline{X} := \text{stack}(\underline{A}, \underline{B})$$

$$\underline{Y} := \text{augment}(\underline{A}, \underline{B})$$

$$\underline{X} = \begin{pmatrix} 1 & 4 & 7 \\ 2 & 5 & 8 \\ 3 & 6 & 9 \\ 10 & 13 & 16 \\ 11 & 14 & 17 \\ 12 & 15 & 18 \end{pmatrix}$$

$$\underline{Y} = \begin{pmatrix} 1 & 4 & 7 & 10 & 13 & 16 \\ 2 & 5 & 8 & 11 & 14 & 17 \\ 3 & 6 & 9 & 12 & 15 & 18 \end{pmatrix}$$

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Assignment

1) Using MATLAB:

$$A = \begin{bmatrix} 1 & 4 & 7 \\ 2 & 5 & 8 \\ 3 & 6 & 9 \end{bmatrix}$$

$$B = \begin{bmatrix} 10 & 13 & 16 \\ 11 & 14 & 17 \\ 12 & 15 & 18 \end{bmatrix}$$

$$X = \text{stack}(A, B)$$

$$Y = \text{augment}(A, B)$$

$$X = \begin{bmatrix} 1 & 4 & 7 \\ 2 & 5 & 8 \\ 3 & 6 & 9 \\ 10 & 13 & 16 \\ 11 & 14 & 17 \\ 12 & 15 & 18 \end{bmatrix}$$

$$Y = \begin{bmatrix} 1 & 4 & 7 & 10 & 13 & 16 \\ 2 & 5 & 8 & 11 & 14 & 17 \\ 3 & 6 & 9 & 12 & 15 & 18 \end{bmatrix}$$

2) Using MATLAB:

Command window

clear

clc

$$A = [1, 4, 7; 2, 5, 8; 3, 6, 9]$$

$$B = [10, 13, 16; 11, 14, 17; 12, 15, 18]$$

$$X = [A; B]$$

$$Y = [A, B]$$

```
1 - commandwindow
2 - clear
3 - clc
4 - A=[1,4,7;2,5,8;3,6,9]
5 - B=[10,13,16;11,14,17;12,15,18]
6 - X=[A;B]
7 - Y=[A,B]
```

A =

1	4	7
2	5	8
3	6	9

B =

10	13	16
11	14	17
12	15	18

11 14 17
12 15 18

1 4 7
2 5 8
3 6 9
10 13 16
11 14 17
12 15 18

Y =

1 4 7 10 13 16
2 5 8 11 14 17
3 6 9 12 15 18

$f_x \gg$