

$$\text{חשב } \begin{aligned} x_1[n] &= [1, 4, 6, 8, 12, 34] \\ x_2[n] &= [2, 5, 7, -4, 0, -1] \end{aligned} \quad \text{נתונים סדרות}$$

$$y[n] = x_1[-n \bmod 6] \circledast x_2[n]$$

($x_1[n]$ מוזז ציקלית)

רשום ערך של $y[3]$

```
x1 = [1 4 6 8 12 34];
```

```
x2 = [2 5 7 -4 0 -1];
```

```
a = [x1(1) fliplr(x1(2:end))]
```

```
a = 1x6
```

```
1 34 12 8 6 4
```

```
n = 0:5; 0, 1, ..., 5
```

```
n_mod = mod(-n,6)
```

```
n_mod = 1x6
```

```
0 5 4 3 2 1
```

```
a = x1(n_mod+1)
```

```
a = 1x6
```

```
1 34 12 8 6 4
```

```
cconv(a,x2,6)
```

```
ans = 1x6
```

```
-2.0000 65.0000 177.0000 304.0000 -4.0000 45.0000
```

```
ifft(fft(a).*fft(x2))
```

```
ans = 1x6
```

```
-2.0000 65.0000 177.0000 304.0000 -4.0000 45.0000
```

$$\begin{aligned} x_1[n] &= [1, 4, 6, 8, 12, 34] \\ x_2[n] &= [2, 5, 7, -4, 0, -1] \end{aligned}$$
 נתונים סדרות

$$y[n] = x_1[-n \bmod 6] \otimes x_2[n]$$

$x_1[n]$ מוזז ציקלית)
 רשום ערך של $y[3]$

$n = 0:5;$
 $n_mod_5 = \text{mod}(-n, 5)$
 $n_mod_5 = 1 \times 6$
 0 4 3 2 1 0
 $a = x_1(n_mod_5 + 1)$
 $a = 1 \times 6$
 1 12 8 6 4 1
 $\text{cconv}(a, x_2, 6)$
 $\text{ans} = 1 \times 6$
 -1.0000 12.0000 73.0000 **128.0000** 45.0000 31.0000