$f = (0,1,2,3,4,5,6,7)^T$, $n = 8$ (jeste stepen dvojke $\checkmark$)

Najpre f delimo na pola, ... sve dok ne dođemo do vektora dužine 1

$f \nearrow f^e = (f_0, f_2, f_4, f_6)$ parni indeksi $\xrightarrow{DFT} c^e$
$f \searrow f^o = (f_1, f_3, f_5, f_7)$ neparni indeksi $\xrightarrow{DFT} c^o$

} od f^e i f^o primenom FFT nastaće c^e i c^o tj. DFT vektora f^e i f^o

→ dodate nove oznake sa leve strane

$f^e \nearrow f^{ee} = (f_0, f_4) \xrightarrow{DFT} c^{ee}$
$f^e \searrow f^{oe} = (f_2, f_6) \xrightarrow{DFT} c^{oe}$

$f^o \nearrow f^{eo} = (f_1, f_5) \xrightarrow{DFT} c^{eo}$
$f^o \searrow f^{oo} = (f_3, f_7) \xrightarrow{DFT} c^{oo}$

$f^{ee} \nearrow f^{eee} = (f_0) = c^{eee}$
$f^{ee} \searrow f^{oee} = (f_4) = c^{oee}$

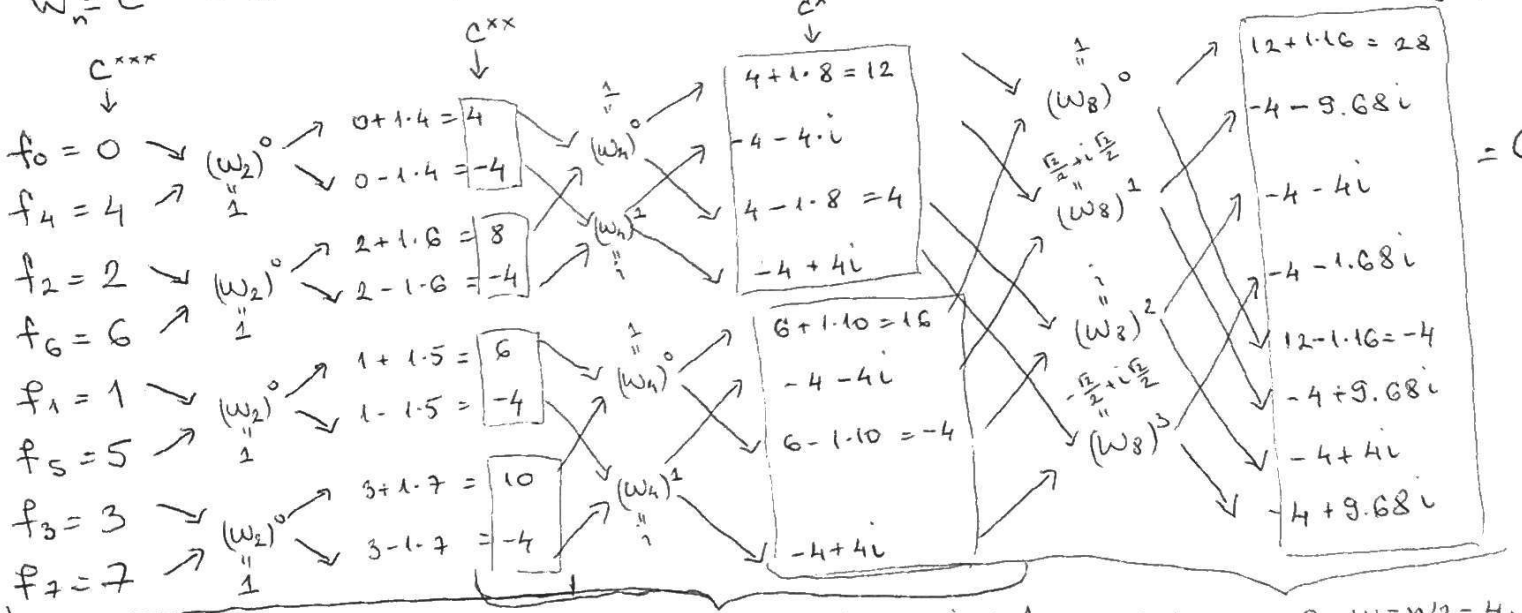
$f^{oe} \nearrow f^{eoe} = (f_2) = c^{eoe}$
$f^{oe} \searrow f^{ooe} = (f_6) = c^{ooe}$

$f^{eo} \nearrow f^{eeo} = (f_1) = c^{eeo}$
$f^{eo} \searrow f^{oeo} = (f_5) = c^{oeo}$

$f^{oo} \nearrow f^{eoo} = (f_3) = c^{eoo}$
$f^{oo} \searrow f^{ooo} = (f_7) = c^{ooo}$

$w_n = e^{i\frac{2\pi}{8}} = e^{i\frac{\pi}{4}} = \cos\frac{\pi}{4} + i\cdot\sin\frac{\pi}{4} = \frac{\sqrt{2}}{2} + i\frac{\sqrt{2}}{2}$, $w_n^k = e^{\frac{2\pi i k}{n}}$,

$c_j = c_j^e + w_n^j \cdot c_j^o$
$c_{j+m} = c_j^e - w_n^j \cdot c_j^o$
} $j = 0, \dots, m-1$



$= C$ → Da bi se dobila DFT od f, još je potrebno sve elemente u ovom c podeliti sa n tj. sa 8

$n = 2$, $m = n/2 = 1$, $j = 0$
$c_0^{xx} = c_0^{exx} + w_2^0 \cdot c_0^{oxx}$
$c_{0+1} = c_0^{exx} - w_2^0 \cdot c_0^{oxx}$
} $w_n^0 = 1$

$n = 4$, $m = n/2 = 2$, $j = 0, 1$
$c_0^x = c_0^{ex} + w_n^0 \cdot c_0^{ox}$
$c_1^x = c_0^{ex} + w_n^1 c_1^{ox}$
$c_2^x = c_0^{ex} - w_n^0 c_0^{ox}$
$c_3^x = c_1^{ex} - w_n^1 \cdot c_1^{ox}$
} $w_n^0 = 1$, $w_n^1 = i$

$n = 8$, $m = n/2 = 4$, $j = 0, 1, 2, 3$
$c_0 = c_0^e + w_n^0 c_0^o$
$c_1 = c_1^e + w_n^1 c_1^o$
$c_2 = c_2^e + w_n^2 c_2^o$
$c_3 = c_3^e + w_n^3 c_3^o$
$c_4 = c_0^e - w_n^0 c_0^e$
$c_5 = c_1^e - w_n^1 c_1^e$
$c_6 = c_2^e - w_n^2 \cdot c_2^e$
$c_7 = c_3^e - w_n^3 \cdot c_3^e$
} $w_n^0 = 1$, $w_n^1 = \frac{\sqrt{2}}{2} + i\frac{\sqrt{2}}{2}$, $w_n^2 = i$, $w_n^3 = -\frac{\sqrt{2}}{2} + i\frac{\sqrt{2}}{2}$