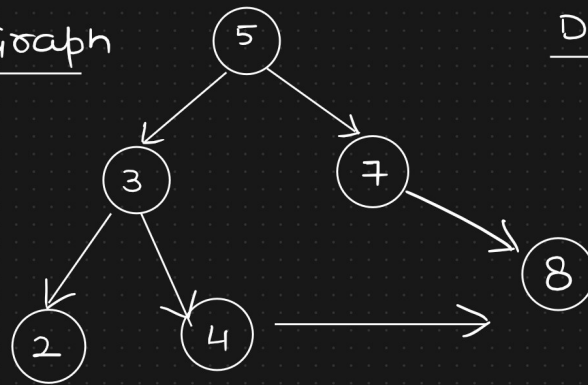


DFT Implementation \rightarrow Recursion

Directed Graph

$\left\{ \begin{array}{l} 5 \rightarrow 3, 7 \\ 3 \rightarrow 2, 4 \\ 4 \rightarrow 8 \\ 7 \rightarrow 8 \\ 2 \rightarrow - \end{array} \right.$



5, 3, 2, 4, 8, 7

~~DFT(5)~~

~~$\omega = 3, 7$~~

~~DFT(3)~~

~~DFT(7)~~

~~$\omega = 2, 4$~~

~~$\omega = 8$~~

~~DFT(2)~~

~~$\omega = X$~~

~~DFT(4)~~

~~$\omega = 8$~~

~~DFT(8)~~

~~$\omega = X$~~