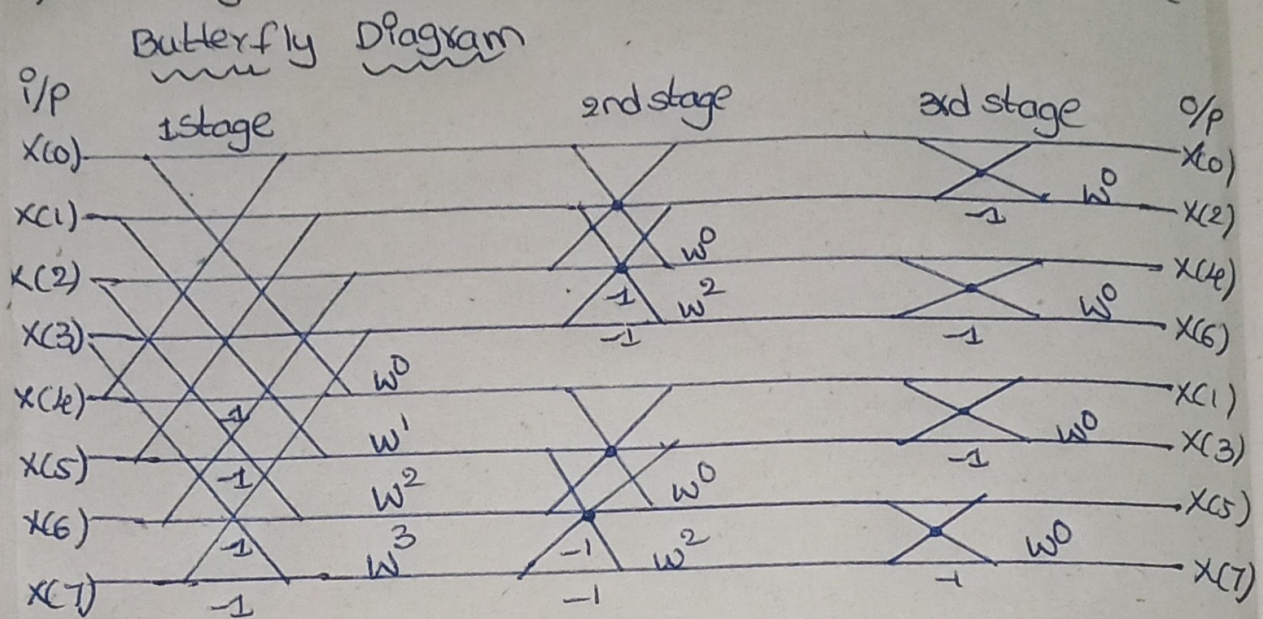


1) FFT by decimation in frequency for 8 point sequence



~~Decim~~ Decimation in frequency of 8 point sequence using FFT

(i) In the output we can split the 4, 4 elements, split 4 elements even indexed & values. Next four elements are odd indexed values.

ii) output we can bit reversed order

iii) Difference in DFT and FFT

In the given diagram the 1st stage we have 4 stages

iv) No. of multiplication used and No. of additions is used to perform  $x(w)$  remains same.