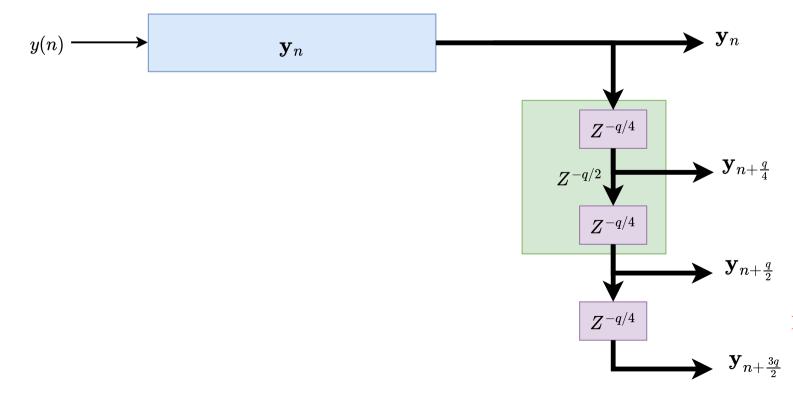


## Distributed memory overall usage depending on $p_{\Delta}$

$$p_{\Delta} = 1 \Rightarrow q \text{ values}$$

$$p_{\Delta}=2\Rightarrow q+q+rac{q}{2}=rac{5q}{2}$$
 values

$$p_{\Delta}=4 \Rightarrow q+q+2q+3\frac{q}{4}=4q+\frac{3q}{4} \text{ values}$$



Shared memory overall usage depending on  $p_{\Delta}$ 

$$p_{\Delta} = 1 \Rightarrow q \text{ values}$$

$$p_{\Delta} = 2 \Rightarrow q + \frac{q}{2}$$
 values

$$p_{\Delta} = 4 \Rightarrow q + \frac{q}{2} + \frac{q}{4}$$
 values

However, more bandwidth required