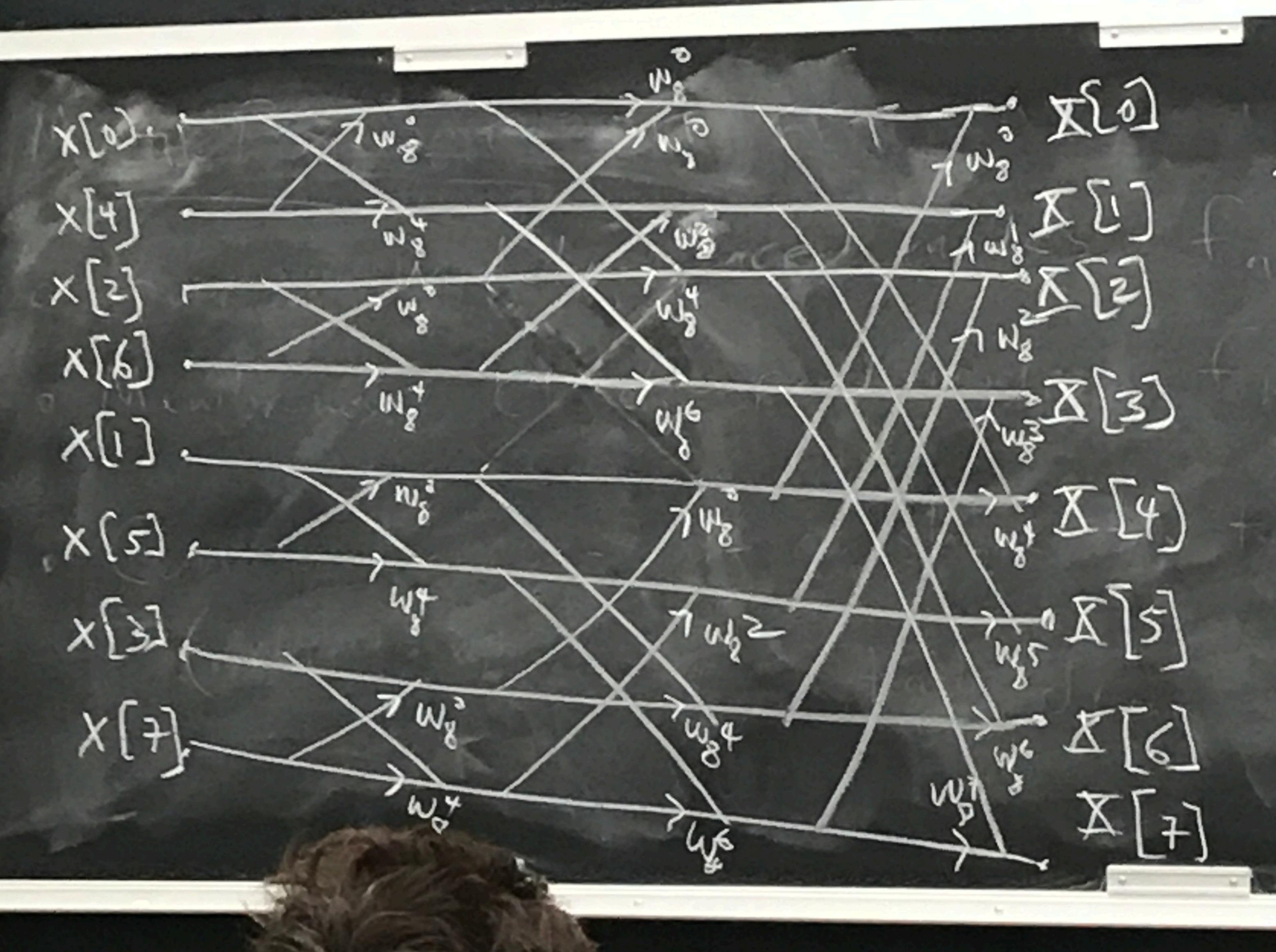
X[K]= \( X\mathbb{N}\mathb ALTER NATE x (n) = 15 x (k) wink 57RUCTURES 14PLEMENTATIONS OF THE FFI



THE SIFT

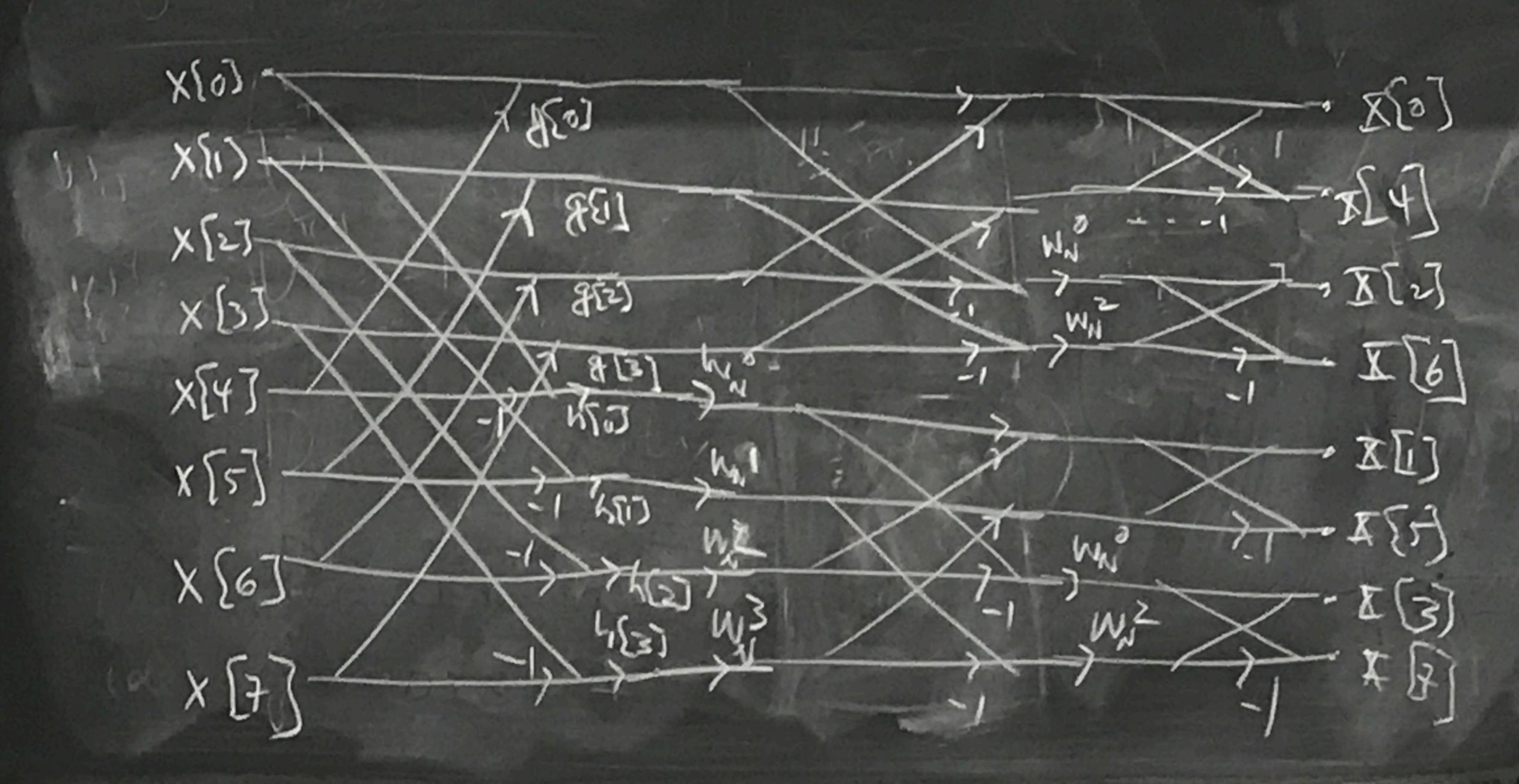
BIT-REVERSED ORDER 1 01

OBTAINING THE IDET.

I. NECESTE SIGNS OF WK, MUCTBY & ATEND II X[n]: I S X[K] II

3. COMPLEX CONJ. RESULTS, DIVIDE BY N

DECIMATION J'N FRE OUENCY XIK) = "Z XM) W, nk X[K)= 2 x[n]wnk + N-1 x[n]wnk [x[n]wn+(-1)\*x[n+n]wnk) - (x(n)+(-1) x [n+N]) with



TRANSPOSE:

- DIT
- INTERCHANGE INPUTS + BUTFUTS
- 2. REVERSE ARROWS

DIF

The way

FASTUDITS FOR N\$2) N+22 = P. P2 P3.... Pu X[K]= Zx[n] wnk = Zx[pr] wnrk + Zx[pr+1] wfr+1) kn 1...+ ZX[p,r+(p,r)]W(p,r+(p,-1))k