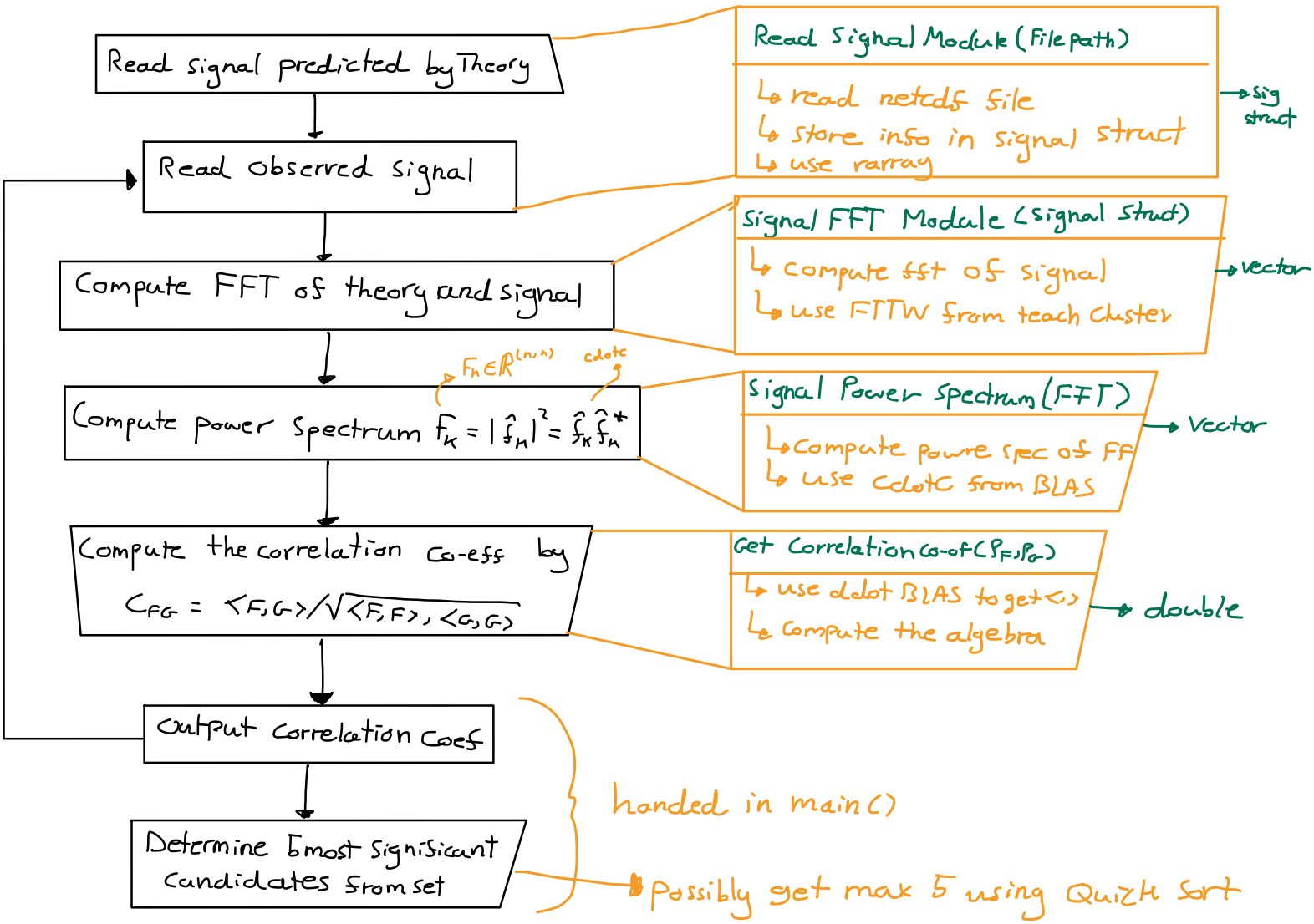
Read signal predicted by Theory
Read observed signal
Compute FFT of theory and signal
Compute power Spectrum $f_k = |\hat{f}_n|^2 = \hat{f}_k \hat{f}_n^*$
$F_n \in \mathbb{R}^{(n_1, n)}$
cdotc
Compute the correlation co-effs by
$C_{FG} = \langle F, G \rangle / \sqrt{\langle F, F \rangle, \langle G, G \rangle}$
output correlation coefs
Determine 5 most significant candidates from set
Read Signal Module (Filepath)
↳ read netcdf file
↳ store info in signal struct
↳ use rarray
sig struct
Signal FFT Module (signal struct)
↳ compute fft of signal
↳ use FFTW from teach cluster
vector
Signal Power Spectrum (FFT)
↳ compute powre spec of FF
↳ use cdotC from BLAS
Vector
Get Correlation co-of (P_F, P_G)
↳ use ddot BLAS to get <>
↳ Compute the algebra
double
handed in main()
possibly get max 5 using Quick Sort