

```

for (m = 0; m < M; m++) {
    phiMag[m] = rPhi[m]*rPhi[m] +
                iPhi[m]*iPhi[m];
}

for (n = 0; n < 8*N; n++) {
    for (m = 0; m < M; m++) {
        exp = 2*PI*(kx[m] * x[n] +
                    ky[m] * y[n] +
                    kz[m] * z[n]);
        rQ[n] += phiMag[m]*cos(exp);
        iQ[n] += phiMag[m]*sin(exp);
    }
}

```