ZAMANDA DESİMASYONLU FFT ALGORİTMASI

function[X]=radix2hfd(x,M)

if nargin ==2

N=M;

else

N=length(x);

end

%global M;

N=length(x);

L=log2(N);

if L==1

X=[x(1)+x(2) x(1)-x(2)]

end

if L>1

WN=exp(-j\*2\*pi/N);

W(1,:)=WN.^([0:1:N/2-1]);

x0(1,:)=x(1:2:end);

x1(1,:)=x(2:2:end);

X0(1,:)= radix2hfd(x0)+W.\* radix2hfd(x1);

X1(1,:)= radix2hfd(x0)-W.\* radix2hfd(x1);

X=[X0 X1];

end

