#Generate the Matrix Prob. 2365

#status : Successful

a = zeros(x);

dv = @(x) abs(diag(unique(fix(-x/2:x/2))))

a = dv(x);

for ii = 1:x

for jj = 1:x

if (ii+1)==jj || (jj+1)==ii

a(ii,jj)=1;

jj = jj+1;

else

jj = jj+1;

end

end

end

y = a;