df = input('valor da defasagem: ');

df = df\*%pi/180;

f0 = input('valo da freq ressonante: ');

w0 = 2\*%pi\*f0;

//calculos

c=(10/f0)\*1E-6;

disp(c,'c');

b = sqrt(1 + 4\*(tan(df/2))^2);

disp(b,'b');

if df<0 & df>=-180 then

C = -1 - b;

disp(C,'C');

a = C /(2\*tan(df/2));

disp(a,'a');

r1=(1/(2\*a\*w0\*c));

disp(r1,'r1');

r2=(4\*r1);

disp(r2,'r2');

r3=8\*r1;

disp(r3,'r3');

r4=8\*r1;

disp(r4,'r4');

else

C = -1 + b;

a = C /(2\*tan(df/2));

disp(a,'a');

r1=(1/(2\*a\*w0\*c));

disp(r1,'r1');

r2=(4\*r1);

disp(r2,'r2');

r3=8\*r1;

disp(r3,'r3');

r4=8\*r1;

disp(r4,'r4');

end