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[~,qm] = countmlv2(mu,tols); % number of points such that mu_i > 0
fprintf('pm = %d ',pm)
fprintf('    qm = %d \n',qm)
fprintf('p - pm = %d ',p - pm)
fprintf('    q - qm = %d \n',q - qm)
lnu = max(2*pf/(p+q),2*qf/(p+q)); unu = min(2*pm/(p+q),2*qm/(p+q));
fprintf('lnu = %d ',lnu)
fprintf('    unu = %d \n',unu)
if nu < lnu
    fprintf('** Warning; nu is too small ** \n')
else
    if nu > unu
        fprintf('** Warning; nu is too big ** \n')
    end
end
end

sx1 = zeros(n,1); num1 = 0;
sKu = zeros(n,1); Knum1 = 0;
for i = 1:p
    if lambnz(i) > 0
        sx1 = sx1 + u(:,i);
        num1 = num1 + 1;
    end
    if lamK(i) > 0
        sKu = sKu + u(:,i);
        Knum1 = Knum1 + 1;
    end
end
end
% Knum1
sx2 = zeros(n,1); num2 = 0;
sKv = zeros(n,1); Knum2 = 0;
for j = 1:q
    if munz(j) > 0
        sx2 = sx2 + v(:,j);
        num2 = num2 + 1;
    end
    if muK(j) > 0
        sKv = sKv + v(:,j);
        Knum2 = Knum2 + 1;
    end
end
end
% Knum2

```