```
[muK,qf] = countvmf2(mu,C/m,tolh); % number of red margin failures
fprintf('pf = %d',pf)
fprintf(', qf = %d \n',qf)
[~,pm] = countmlu2(lamb,tols); % number of points such that lambda_i > tols
[~,qm] = countmlv2(mu,tols); % number of points such that mu_i > 0
fprintf('pm = %d',pm)
fprintf(' qm = %d n',qm)
% lambda_i <= tols</pre>
[lmz,nz] = countLzero(lamb,mu,tols);
pm2 = numsvl1 + pf; qm2 = numsvm1 + qf;
fprintf('pm2 = %d',pm2)
          qm2 = %d \n', qm2)
fprintf('
lnu = max(2*pf/m, 2*qf/m); unu = min(2*pm/m, 2*qm/m);
fprintf('lnu = %d',lnu)
fprintf(' unu = %d \n',unu)
fprintf('nz = %d \n',nz)
if nu < lnu
      fprintf('** Warning; nu is too small ** \n')
else
      if nu > unu
           fprintf('** Warning; nu is too big ** \n')
      end
end
fprintf('C/m = \%.15f', C/m)
fprintf(' (C nu)/2 = \%.15f \n', (C*nu)/2)
fprintf('sum(lambda) = %.15f ',sum(lamb))
fprintf('sum(mu) = %.15f \n', sum(mu))
lamsv = 0; musv = 0; xi = 0; xip = 0;
if numsvl1 > 0 \&\& numsvm1 > 0
  sx1 = zeros(n,1); sy1 = 0; num1 = 0;
  sx2 = zeros(n,1); sy2 = 0; num2 = 0;
   for i = 1:m
      if lambnz(i) > 0
          sx1 = sx1 + X(i,:)'; sy1 = sy1 + y(i);
         num1 = num1 + 1;
      end
       if munz(i) > 0
          sx2 = sx2 + X(i,:)'; sy2 = sy2 + y(i);
          num2 = num2 + 1;
      end
   end
```