% Weave matrix together

function c = merge(a,b)

c = [a;b];

c = c(:)';

end

% Valid for vector

% But fails for the following case

a = [1 2 3; 4 5 6];

b = [4 5 6; 7 8 9];

c1 = [ a(1,:);b(1,:)];

c1 = c1(:)';

c2 = [ a(2,:);b(2,:)];

c2 = c2(:)';

c = [c1;c2]

c3 = [ a(3,:);b(3,:)];

c3 = c3(:)';

c = [c1;c2;c3]

% All cases passed with the above code except ; a=ones(3) ; b=eyes(3)

function c = merge(a,b)

sz\_a = size(a);

if sz\_a(1) ==1

c = [a;b];

c = c(:)';

elseif sz\_a(1)==2

c1 = [ a(1,:);b(1,:)];

c1 = c1(:)';

c2 = [ a(2,:);b(2,:)];

c2 = c2(:)';

c = [c1;c2];

else

c1 = [ a(1,:);b(1,:)];

c1 = c1(:)';

c2 = [ a(2,:);b(2,:)];

c2 = c2(:)';

c3 = [ a(3,:);b(3,:)];

c3 = c3(:)';

c = [c1;c2;c3];

end

end