

[illegible]

```

vp1 = 1;
vp2 = 2;

pos = [1 2];
count1 = 0;
for i = 1:n1
    diff1 = (p1(i,:) - m1).*(p1(i,:) - m1).*lambda';
    diff2 = (p1(i,:) - m2).*(p1(i,:) - m2).*lambda';
    res(1) = sum(diff1);
    res(2) = sum(diff2);
    if pos(find(res == min(res))) == vp1
        count1 = count1 + 1;
    end
end
count1;
clear diff1 diff2 res count pos

```

```

pos = [1 2];
count2 = 0;
for i = 1:n1
    diff1 = (p2(i,:) - m1).*(p2(i,:) - m1).*lambda';
    diff2 = (p2(i,:) - m2).*(p2(i,:) - m2).*lambda';
    res(1) = sum(diff1);
    res(2) = sum(diff2);
    if pos(find(res == min(res))) == vp2
        count2 = count2 + 1;
    end
end
count2;
clear diff1 diff2 res count pos

```