
```
function [ matchedPoints1, matchedPoints2 ] = getMatchedPoints(corrX,  
    corrY)  
  
numMatchedPoints = sum(sum(corrX > 0));  
matchedPoints1 = zeros(numMatchedPoints, 2);  
matchedPoints2 = zeros(numMatchedPoints, 2);  
  
sizeX = size(corrX, 1);  
sizeY = size(corrX, 2);  
  
matchedPointsCount = 0;  
for i = 1:sizeX  
    for j = 1:sizeY  
        if (corrX(i,j) > 0 && corrY(i,j) > 0)  
            matchedPointsCount = matchedPointsCount + 1;  
            matchedPoints1(matchedPointsCount, :) = [i j];  
            matchedPoints2(matchedPointsCount, :) = [corrX(i,j)  
                corrY(i,j)];  
        end  
    end  
end  
  
end
```

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