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% Inspect image values
img = imread('rajasthani_dancers.jpg');
imshow(img);
disp(size(img));

% Crop to show only middle dancer
cropped = img(100:800, 400:850, :);
imshow(cropped);

% Show Red, Blue, and Green channels separately
red = cropped(:,:,1);
blue = cropped(:,:,2);
green = cropped(:,:,3);
figure(1)
subplot(1,3,1)
imshow(red)
title('Red Channel')
subplot(1,3,2)
imshow(blue)
title('Blue Channel')
subplot(1,3,3)
imshow(green)
title('Green Channel')

% overlay two dancers
dancer_1 = img(100:800, 400:850, :);
disp(size(dancer_1));
dancer_2 = img(100:800, 01:451, :);
disp(size(dancer_2));
figure(2)
two_dancers = dancer_1/2 + dancer_2/2;
subplot(1,3,1)
imshow(dancer_1)
title('Dancer 1')
subplot(1,3,2)
imshow(dancer_2)
title('Dancer 2')
subplot(1,3,3)
imshow(two_dancers)
title('Averaged Dancers')

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853      1280      3

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701   451      3

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701   451      3

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Red Channel



Red Channel



Green Channel



Dancer 1



Dancer 2



Averaged Dancers



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