```
I = imread('team1.jpg');
J = rgb2gray(I);
[r, c] = size(J);
h = zeros(1, 256);
for i = 1:r
for j = 1:c
t = J(i,j);
h(t) = h(t)+1;
end
end
disp(h);
bar(h);
subplot(2,2,1), imshow(I);
title('RGB image');
subplot(2,2,2), imshow(J);
title('Gray image');
subplot(2,2,3), imhist(J);
title('Histogram using imhist');
subplot(2,2,4), bar(h, 'b');
title('Histogram calculated');
```

```
  Columns 1 through 6

         0           3           3          34         150         270

  Columns 7 through 12

       794        1022        1725        1635        2501        2210

  Columns 13 through 18

      2364        2274        2498        2564        3076        3744

  Columns 19 through 24

      3783        4323        4435        4714        4719        4165

  Columns 25 through 30

      4091        3681        3716        3335        3236        2767

  Columns 31 through 36

      2680        2422        2032        1857        1669        1523

  Columns 37 through 42

      1326        1289        1159        1077        1013         922

  Columns 43 through 48

       849         869         768         805         720         672
```

Columns 49 through 54

695 680 663 627 676 598

Columns 55 through 60

603 589 598 556 583 533

Columns 61 through 66

579 548 527 514 566 510

Columns 67 through 72

550 565 527 525 523 539

Columns 73 through 78

504 536 524 505 508 543

Columns 79 through 84

504 498 516 507 494 507

Columns 85 through 90

501 530 463 552 522 519

Columns 91 through 96

512 488 522 538 500 490

Columns 97 through 102

460 494 496 485 498 471

Columns 103 through 108

492 482 461 469 491 479

Columns 109 through 114

477 450 469 488 501 478

Columns 115 through 120

508 470 444 418 437 491

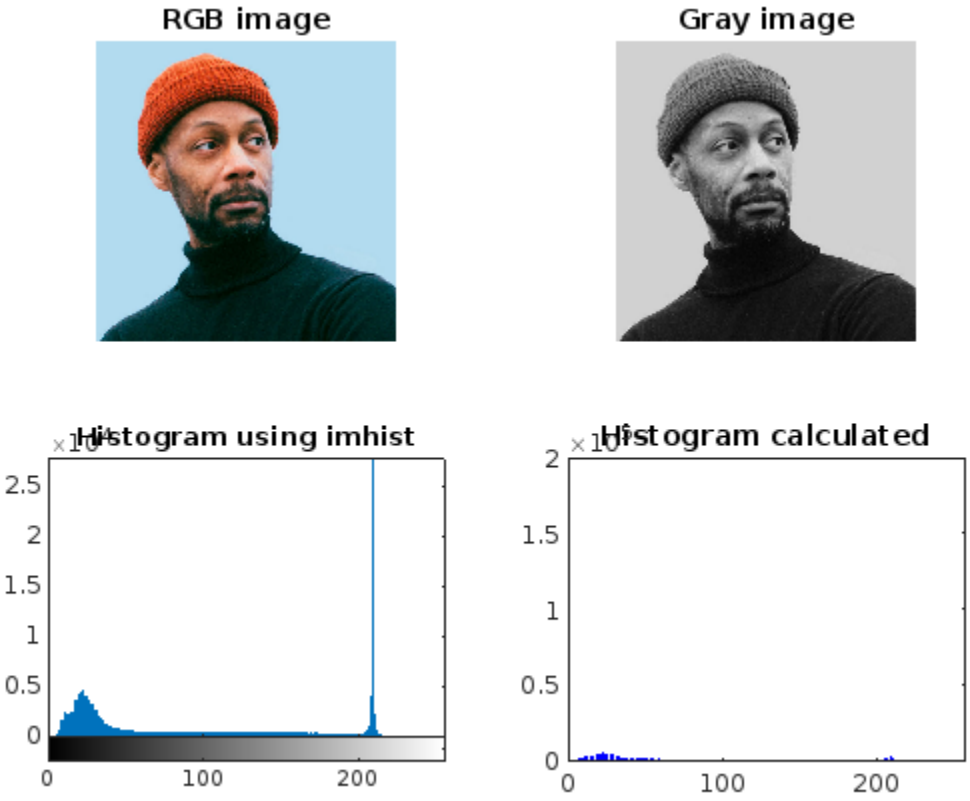
Columns 121 through 126

474 437 468 455 440 454

Columns 127 through 132

```
       495         453         482         488         437         472

Columns 133 through 138

       438         471         491         450         521         499

Columns 139 through 144

       470         530         531         554         562         553

Columns 145 through 150

       532         519         492         518         512         448

Columns 151 through 156

       511         532         493         502         494         497

Columns 157 through 162

       470         434         513         494         456         437

Columns 163 through 168

       477         451         441         414         404         386

Columns 169 through 174

       418         398         385         407         413         394

Columns 175 through 180

       398         401         388         347         357         364

Columns 181 through 186

       365         360         344         322         316         302

Columns 187 through 192

       295         283         269         264         245         261

Columns 193 through 198

       244         255         215         221         221         214

Columns 199 through 204

       239         225         234         256         279         406

Columns 205 through 210

       473         675        1143        4149      177619        2407
```

```
Columns 211 through 216

      1519         745         391         310         231         189

Columns 217 through 222

       161         142         107          93          62          55

Columns 223 through 228

        50          26          15          14           9           2

Columns 229 through 234

         2           2           1           0           0           0

Columns 235 through 240

         1           0           0           0           0           0

Columns 241 through 246

         0           0           0           0           0           0

Columns 247 through 252

         0           0           0           0           0           0

Columns 253 through 256

         0           0           0           0
```



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