

```

# Description:
# In origin we keep the starting points coordinates in the format:
# array([[x1, x2, x3], [y1, y2, y3]])
# starting_points

# In V we store the directions from the starting point.
# array([[x1, y1], [x2, y2], [x3, y3]])
# direction_list

# The order of all of the points is:
# // Result for COCO (17 body parts)
# {0, "Nose"},
# {1, "LEye"},
# {2, "REye"},
# {3, "LEar"},
# {4, "REar"},
# {5, "LShoulder"}, - right hip
# {6, "RShoulder"}, - left shoulder
# {7, "LElbow"},
# {8, "RElbow"},
# {9, "LWrist"},
# {10, "RWrist"},
# {11, "LHip"}, - right shoulder
# {12, "RHip"}, - left hip
# {13, "LKnee"},
# {14, "Rknee"},
# {15, "LAnkle"},
# {16, "RAnkle"},
# Connections:
# Left arm: (5, 7, 9)
# Right arm: (6, 8, 10)
# Left leg: (11, 13, 15)
# Right leg: (12, 14, 16)
# Body: (5, 6, 11, 12) - LSh, RSh, LHip, RHip
# Head: (3, 1, 0, 2, 4) - LEar, LEye, Nose, REye, REar

# Connections:
# Left arm: (6, 7, 9)
# Right arm: (11, 8, 10)
# Left leg: (12, 13, 15)
# Right leg: (5, 14, 16)
# Body: (5, 6, 11, 12) - LSh, RSh, LHip, RHip
# Head: (3, 1, 0, 2, 4) - LEar, LEye, Nose, REye, REar

origin:
[[245.1496582 253.94812012 245.1496582 275.94424438 258.34735107
306.73886108 236.35119629 359.52960205 218.75428772 407.92111206
258.34735107 297.94039917 253.94812012 341.93267822 214.35505676
355.13037109 218.75428772]
[180.97511292 172.176651 172.176651 180.97511292 176.57588196
233.76585388 233.76585388 273.35891724 295.3550415 304.15350342
312.95196533 352.54501343 356.94424438 444.92880249 453.7272644
541.71185303 559.30877686]]

V:
[[156.43795776 35.34828186]
[155.33322144 36.45301819]
[156.43795776 36.45301819]
[160.2651062 31.50141907]
[166.32141113 39.74751282]
[164.09222412 32.56669617]
[165.23641968 32.56669617]
[145.92318726 46.82965088]
[144.36473083 20.98666382]
[28.28823853 50.65679932]
[54.76251221 41.8583374 ]
[157.50323486 29.19329834]
[159.18008423 24.79406738]
[105.81723022 25.28726196]
[121.83595276 1.10134888]
[73.38525391 40.06311035]
[190.52705383 -31.38983154]]

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RightLeg:

((253.9481201171875, 356.9442443847656), (214.3550567626953, 453.7272644042969)
, (218.75428771972656, 559.3087768554688))