P1 = np.array([(5, 15), (4, 13), (2, 13), (2, 15), (5, 15), (6, 16), (7, 16), (9, 18), (9, 19), (5, 19), (3, 20),
(1, 22), (0, 24), (0, 28), (1, 31), (2, 32), (2, 33), (1, 34), (1, 41), (3, 45), (3, 46), (5, 46),
(6, 45), (6, 34), (7, 34), (7, 40), (9, 42), (11, 43), (16, 43), (16, 41), (15, 39), (11, 35),
(11, 34), (16, 34), (18, 32), (18, 28), (21, 28), (22, 27), (22, 25), (21, 24), (20, 24), (19, 23), (19, 21),
(15, 19), (13, 19), (13, 18), (12, 19), (9, 19)])
P2 = np.array([(2, 38), (3, 39), (3, 41), (4, 41), (4, 34), (3, 34), (2, 35), (2, 38)])
P3 = np.array([(14, 29), (14, 30), (15, 31)])
P4 = np.array([(16, 29), (17, 29), (17, 27), (16, 27), (16, 29)])
P5 = np.array([(21.5, 27.5), (21, 27), (21, 25), (21.5, 24.5)])
P6 = np.array([(15, 26), (16, 26), (17, 25), (17, 23), (16, 22), (15, 22), (15, 26)])
P7 = np.array([(4, 13), (4, 8), (7, 5), (7, 3), (11, 3), (11, 7), (12, 8)])
P8 = np.array([(11, 4), (15, 4), (16, 6), (17,6.5),(18 ,9),(18 ,14),(17 ,16),(16 ,17),(14 ,17),(13 ,18)])
P10 = np.array([(7 ,16),(7 ,15),(12 ,11)])
P11 = np.array([(13 ,18),(16 ,18),(17 ,19),(19 ,19),(19 ,17),(20 ,17),(20 ,18),(18 ,18),(18 ,19)])
P12 = np.array([(17 ,16),(18 ,16),(19 ,17)])
P13 = np.array([(8 ,1),(10 ,1),(10 ,0),(8 ,0),(8 ,3),(10 ,3),(10 ,1)])
P14 = np.array([(12 ,4),(12 ,2),(14 ,2),(14 ,4)])
P15 = np.array([(12 ,2),(12 ,1),(14 ,1),(14 ,2)])

P = {"P1" : P1,
    "P2" : P2,
    "P3" : P3,
    "P4" : P4,
    "P5" : P5,
    "P6" : P6,
    "P7" : P7,
    "P8" : P8,
    "P10" : P10,
    "P11" : P11,
    "P12" : P12,
    "P13" : P13,
    "P14" : P14,
    "P15" : P15}