```
In [4]: #Import numpy
        import numpy as np
        #Seasons
        Seasons = ["2015","2016","2017","2018","2019","2020","2021","2022","2023","2024"
        Sdict = {"2015":0,"2016":1,"2017":2,"2018":3,"2019":4,"2020":5,"2021":6,"2022":7
        #Players
        Players = ["Sachin", "Rahul", "Smith", "Sami", "Pollard", "Morris", "Samson", "Dhoni", "
        Pdict = {"Sachin":0, "Rahul":1, "Smith":2, "Sami":3, "Pollard":4, "Morris":5, "Samson"
        #Salaries
        Sachin_Salary = [15946875,17718750,19490625,21262500,23034375,24806250,25244493,
        Rahul_Salary = [12000000,12744189,13488377,14232567,14976754,16324500,18038573,1
        Smith_Salary = [4621800,5828090,13041250,14410581,15779912,14500000,16022500,175
        Sami_Salary = [3713640,4694041,13041250,14410581,15779912,17149243,18518574,1945
        Pollard_Salary = [4493160,4806720,6061274,13758000,15202590,16647180,18091770,19
        Morris Salary = [3348000,4235220,12455000,14410581,15779912,14500000,16022500,17
        Samson_Salary = [3144240,3380160,3615960,4574189,13520500,14940153,16359805,1777
        Dhoni_Salary = [0,0,4171200,4484040,4796880,6053663,15506632,16669630,17832627,1
        Kohli_Salary = [0,0,0,4822800,5184480,5546160,6993708,16402500,17632688,18862875
        Sky_Salary = [3031920,3841443,13041250,14410581,15779912,14200000,15691000,17182
        #Matrix
        Salary = np.array([Sachin_Salary, Rahul_Salary, Smith_Salary, Sami_Salary, Polla
        #Games
        Sachin_G = [80,77,82,82,73,82,58,78,6,35]
        Rahul_G = [82,57,82,79,76,72,60,72,79,80]
        Smith_G = [79,78,75,81,76,79,62,76,77,69]
        Sami_G = [80,65,77,66,69,77,55,67,77,40]
        Pollard_G = [82,82,82,79,82,78,54,76,71,41]
        Morris_G = [70,69,67,77,70,77,57,74,79,44]
        Samson_G = [78,64,80,78,45,80,60,70,62,82]
        Dhoni G = [35,35,80,74,82,78,66,81,81,27]
        Kohli G = [40,40,40,81,78,81,39,0,10,51]
        Sky G = [75,51,51,79,77,76,49,69,54,62]
        #Matrix
        Games = np.array([Sachin_G, Rahul_G, Smith_G, Sami_G, Pollard_G, Morris_G, Samso
        #Points
        Sachin PTS = [2832,2430,2323,2201,1970,2078,1616,2133,83,782]
        Rahul_PTS = [1653,1426,1779,1688,1619,1312,1129,1170,1245,1154]
        Smith PTS = [2478,2132,2250,2304,2258,2111,1683,2036,2089,1743]
        Sami_PTS = [2122,1881,1978,1504,1943,1970,1245,1920,2112,966]
        Pollard PTS = [1292,1443,1695,1624,1503,1784,1113,1296,1297,646]
        Morris_PTS = [1572,1561,1496,1746,1678,1438,1025,1232,1281,928]
        Samson_PTS = [1258,1104,1684,1781,841,1268,1189,1186,1185,1564]
        Dhoni PTS = [903,903,1624,1871,2472,2161,1850,2280,2593,686]
        Kohli PTS = [597,597,597,1361,1619,2026,852,0,159,904]
        Sky_{PTS} = [2040, 1397, 1254, 2386, 2045, 1941, 1082, 1463, 1028, 1331]
        #Matrix
        Points = np.array([Sachin_PTS, Rahul_PTS, Smith_PTS, Sami_PTS, Pollard_PTS, Morr
```

In [6]: Salary

```
Out[6]: array([[15946875, 17718750, 19490625, 21262500, 23034375, 24806250,
                  25244493, 27849149, 30453805, 23500000],
                 [12000000, 12744189, 13488377, 14232567, 14976754, 16324500,
                 18038573, 19752645, 21466718, 23180790],
                 [ 4621800, 5828090, 13041250, 14410581, 15779912, 14500000,
                 16022500, 17545000, 19067500, 20644400],
                 [ 3713640, 4694041, 13041250, 14410581, 15779912, 17149243,
                 18518574, 19450000, 22407474, 22458000],
                 [ 4493160, 4806720, 6061274, 13758000, 15202590, 16647180,
                 18091770, 19536360, 20513178, 21436271],
                 [ 3348000, 4235220, 12455000, 14410581, 15779912, 14500000,
                 16022500, 17545000, 19067500, 20644400],
                 [ 3144240, 3380160, 3615960, 4574189, 13520500, 14940153,
                 16359805, 17779458, 18668431, 20068563],
                                  0, 4171200, 4484040, 4796880,
                        0,
                 15506632, 16669630, 17832627, 18995624],
                                            0, 4822800, 5184480,
                                                                    5546160,
                                  0,
                   6993708, 16402500, 17632688, 18862875],
                 [ 3031920, 3841443, 13041250, 14410581, 15779912, 14200000,
                  15691000, 17182000, 18673000, 15000000]])
In [8]: Games
Out[8]: array([[80, 77, 82, 82, 73, 82, 58, 78, 6, 35],
                 [82, 57, 82, 79, 76, 72, 60, 72, 79, 80],
                 [79, 78, 75, 81, 76, 79, 62, 76, 77, 69],
                 [80, 65, 77, 66, 69, 77, 55, 67, 77, 40],
                 [82, 82, 82, 79, 82, 78, 54, 76, 71, 41],
                 [70, 69, 67, 77, 70, 77, 57, 74, 79, 44],
                 [78, 64, 80, 78, 45, 80, 60, 70, 62, 82],
                 [35, 35, 80, 74, 82, 78, 66, 81, 81, 27],
                 [40, 40, 40, 81, 78, 81, 39, 0, 10, 51],
                 [75, 51, 51, 79, 77, 76, 49, 69, 54, 62]])
In [10]: Points
Out[10]: array([[2832, 2430, 2323, 2201, 1970, 2078, 1616, 2133,
                                                                    83, 782],
                 [1653, 1426, 1779, 1688, 1619, 1312, 1129, 1170, 1245, 1154],
                 [2478, 2132, 2250, 2304, 2258, 2111, 1683, 2036, 2089, 1743],
                 [2122, 1881, 1978, 1504, 1943, 1970, 1245, 1920, 2112,
                 [1292, 1443, 1695, 1624, 1503, 1784, 1113, 1296, 1297,
                 [1572, 1561, 1496, 1746, 1678, 1438, 1025, 1232, 1281, 928],
                 [1258, 1104, 1684, 1781, 841, 1268, 1189, 1186, 1185, 1564],
                 [ 903, 903, 1624, 1871, 2472, 2161, 1850, 2280, 2593,
                 [ 597, 597, 597, 1361, 1619, 2026, 852,
                                                              0, 159,
                 [2040, 1397, 1254, 2386, 2045, 1941, 1082, 1463, 1028, 1331]])
In [12]: Games
Out[12]: array([[80, 77, 82, 82, 73, 82, 58, 78, 6, 35],
                 [82, 57, 82, 79, 76, 72, 60, 72, 79, 80],
                 [79, 78, 75, 81, 76, 79, 62, 76, 77, 69],
                 [80, 65, 77, 66, 69, 77, 55, 67, 77, 40],
                 [82, 82, 82, 79, 82, 78, 54, 76, 71, 41],
                 [70, 69, 67, 77, 70, 77, 57, 74, 79, 44],
                 [78, 64, 80, 78, 45, 80, 60, 70, 62, 82],
                 [35, 35, 80, 74, 82, 78, 66, 81, 81, 27],
                 [40, 40, 40, 81, 78, 81, 39, 0, 10, 51],
                 [75, 51, 51, 79, 77, 76, 49, 69, 54, 62]])
```

```
In [14]: | Games[5]
Out[14]: array([70, 69, 67, 77, 70, 77, 57, 74, 79, 44])
In [16]: Games[0:5]
Out[16]: array([[80, 77, 82, 82, 73, 82, 58, 78, 6, 35],
                 [82, 57, 82, 79, 76, 72, 60, 72, 79, 80],
                 [79, 78, 75, 81, 76, 79, 62, 76, 77, 69],
                 [80, 65, 77, 66, 69, 77, 55, 67, 77, 40],
                 [82, 82, 82, 79, 82, 78, 54, 76, 71, 41]])
In [18]: Games
Out[18]: array([[80, 77, 82, 82, 73, 82, 58, 78, 6, 35],
                 [82, 57, 82, 79, 76, 72, 60, 72, 79, 80],
                 [79, 78, 75, 81, 76, 79, 62, 76, 77, 69],
                 [80, 65, 77, 66, 69, 77, 55, 67, 77, 40],
                 [82, 82, 82, 79, 82, 78, 54, 76, 71, 41],
                 [70, 69, 67, 77, 70, 77, 57, 74, 79, 44],
                 [78, 64, 80, 78, 45, 80, 60, 70, 62, 82],
                [35, 35, 80, 74, 82, 78, 66, 81, 81, 27],
                 [40, 40, 40, 81, 78, 81, 39, 0, 10, 51],
                 [75, 51, 51, 79, 77, 76, 49, 69, 54, 62]])
In [20]: Games[0,5]
Out[20]: 82
In [22]:
         Games[2]
Out[22]: array([79, 78, 75, 81, 76, 79, 62, 76, 77, 69])
In [24]:
        Games[2,8]
Out[24]: 77
In [26]:
        Games[-3:-1]
Out[26]: array([[35, 35, 80, 74, 82, 78, 66, 81, 81, 27],
                 [40, 40, 40, 81, 78, 81, 39, 0, 10, 51]])
In [28]: Games[-3,-1]
Out[28]: 27
In [30]:
         Points
Out[30]: array([[2832, 2430, 2323, 2201, 1970, 2078, 1616, 2133,
                                                                   83, 782],
                 [1653, 1426, 1779, 1688, 1619, 1312, 1129, 1170, 1245, 1154],
                 [2478, 2132, 2250, 2304, 2258, 2111, 1683, 2036, 2089, 1743],
                 [2122, 1881, 1978, 1504, 1943, 1970, 1245, 1920, 2112, 966],
                 [1292, 1443, 1695, 1624, 1503, 1784, 1113, 1296, 1297,
                 [1572, 1561, 1496, 1746, 1678, 1438, 1025, 1232, 1281,
                 [1258, 1104, 1684, 1781, 841, 1268, 1189, 1186, 1185, 1564],
                        903, 1624, 1871, 2472, 2161, 1850, 2280, 2593,
                 [ 903,
                 [ 597, 597, 597, 1361, 1619, 2026, 852,
                                                              0, 159,
                 [2040, 1397, 1254, 2386, 2045, 1941, 1082, 1463, 1028, 1331]])
```

```
Points[0]
In [32]:
                                                                 83, 782])
Out[32]: array([2832, 2430, 2323, 2201, 1970, 2078, 1616, 2133,
In [34]: Points[:]
Out[34]: array([[2832, 2430, 2323, 2201, 1970, 2078, 1616, 2133,
                                                                    83, 782],
                 [1653, 1426, 1779, 1688, 1619, 1312, 1129, 1170, 1245, 1154],
                 [2478, 2132, 2250, 2304, 2258, 2111, 1683, 2036, 2089, 1743],
                 [2122, 1881, 1978, 1504, 1943, 1970, 1245, 1920, 2112, 966],
                 [1292, 1443, 1695, 1624, 1503, 1784, 1113, 1296, 1297, 646],
                 [1572, 1561, 1496, 1746, 1678, 1438, 1025, 1232, 1281, 928],
                 [1258, 1104, 1684, 1781, 841, 1268, 1189, 1186, 1185, 1564],
                 [ 903, 903, 1624, 1871, 2472, 2161, 1850, 2280, 2593, 686],
                 [ 597, 597, 597, 1361, 1619, 2026, 852, 0, 159, 904],
                 [2040, 1397, 1254, 2386, 2045, 1941, 1082, 1463, 1028, 1331]])
In [36]:
         Points[6,1]
Out[36]: 1104
In [38]:
         Points[3:6]
Out[38]: array([[2122, 1881, 1978, 1504, 1943, 1970, 1245, 1920, 2112,
                                                                         966],
                 [1292, 1443, 1695, 1624, 1503, 1784, 1113, 1296, 1297,
                                                                         646],
                 [1572, 1561, 1496, 1746, 1678, 1438, 1025, 1232, 1281,
                                                                         928]])
In [40]:
         Points[-6,-1]
Out[40]: 646
In [42]: Games
Out[42]: array([[80, 77, 82, 82, 73, 82, 58, 78, 6, 35],
                 [82, 57, 82, 79, 76, 72, 60, 72, 79, 80],
                 [79, 78, 75, 81, 76, 79, 62, 76, 77, 69],
                 [80, 65, 77, 66, 69, 77, 55, 67, 77, 40],
                 [82, 82, 82, 79, 82, 78, 54, 76, 71, 41],
                 [70, 69, 67, 77, 70, 77, 57, 74, 79, 44],
                 [78, 64, 80, 78, 45, 80, 60, 70, 62, 82],
                 [35, 35, 80, 74, 82, 78, 66, 81, 81, 27],
                 [40, 40, 40, 81, 78, 81, 39, 0, 10, 51],
                 [75, 51, 51, 79, 77, 76, 49, 69, 54, 62]])
In [44]: Pdict
Out[44]: {'Sachin': 0,
           'Rahul': 1,
           'Smith': 2,
           'Sami': 3,
           'Pollard': 4,
           'Morris': 5,
           'Samson': 6,
           'Dhoni': 7,
           'Kohli': 8,
           'Sky': 9}
         Pdict['Sachin']
In [46]:
```

```
Out[46]: 0
In [48]: Games[Pdict['Sachin']]
Out[48]: array([80, 77, 82, 82, 73, 82, 58, 78, 6, 35])
In [50]: Pdict['Rahul']
Out[50]: 1
In [52]: Games[1]
Out[52]: array([82, 57, 82, 79, 76, 72, 60, 72, 79, 80])
In [54]: Games[Pdict['Rahul']]
Out[54]: array([82, 57, 82, 79, 76, 72, 60, 72, 79, 80])
```

## Games

```
In [57]:
        Points
Out[57]: array([[2832, 2430, 2323, 2201, 1970, 2078, 1616, 2133,
                                                                   83, 782],
                 [1653, 1426, 1779, 1688, 1619, 1312, 1129, 1170, 1245, 1154],
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                 [2122, 1881, 1978, 1504, 1943, 1970, 1245, 1920, 2112, 966],
                 [1292, 1443, 1695, 1624, 1503, 1784, 1113, 1296, 1297, 646],
                 [1572, 1561, 1496, 1746, 1678, 1438, 1025, 1232, 1281, 928],
                 [1258, 1104, 1684, 1781, 841, 1268, 1189, 1186, 1185, 1564],
                 [ 903, 903, 1624, 1871, 2472, 2161, 1850, 2280, 2593, 686],
                 [ 597, 597, 597, 1361, 1619, 2026, 852,
                                                             0, 159, 904],
                 [2040, 1397, 1254, 2386, 2045, 1941, 1082, 1463, 1028, 1331]])
In [59]: Salary
Out[59]: array([[15946875, 17718750, 19490625, 21262500, 23034375, 24806250,
                  25244493, 27849149, 30453805, 23500000],
                 [12000000, 12744189, 13488377, 14232567, 14976754, 16324500,
                 18038573, 19752645, 21466718, 23180790],
                 [ 4621800, 5828090, 13041250, 14410581, 15779912, 14500000,
                 16022500, 17545000, 19067500, 20644400],
                 [ 3713640, 4694041, 13041250, 14410581, 15779912, 17149243,
                 18518574, 19450000, 22407474, 22458000],
                 [ 4493160, 4806720, 6061274, 13758000, 15202590, 16647180,
                 18091770, 19536360, 20513178, 21436271],
                 [ 3348000, 4235220, 12455000, 14410581, 15779912, 14500000,
                 16022500, 17545000, 19067500, 20644400],
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                 16359805, 17779458, 18668431, 20068563],
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                 15506632, 16669630, 17832627, 18995624],
                        0,
                                  0,
                                            0, 4822800,
                                                          5184480,
                                                                   5546160,
                  6993708, 16402500, 17632688, 18862875],
                 [ 3031920, 3841443, 13041250, 14410581, 15779912, 14200000,
                  15691000, 17182000, 18673000, 15000000]])
```

```
In [61]:
         Games
Out[61]: array([[80, 77, 82, 82, 73, 82, 58, 78, 6, 35],
                 [82, 57, 82, 79, 76, 72, 60, 72, 79, 80],
                 [79, 78, 75, 81, 76, 79, 62, 76, 77, 69],
                 [80, 65, 77, 66, 69, 77, 55, 67, 77, 40],
                 [82, 82, 82, 79, 82, 78, 54, 76, 71, 41],
                 [70, 69, 67, 77, 70, 77, 57, 74, 79, 44],
                 [78, 64, 80, 78, 45, 80, 60, 70, 62, 82],
                 [35, 35, 80, 74, 82, 78, 66, 81, 81, 27],
                 [40, 40, 40, 81, 78, 81, 39, 0, 10, 51],
                 [75, 51, 51, 79, 77, 76, 49, 69, 54, 62]])
In [63]: Salary/Games
        C:\Users\ruchi\AppData\Local\Temp\ipykernel_14056\3709746658.py:1: RuntimeWarnin
        g: divide by zero encountered in divide
          Salary/Games
Out[63]: array([[ 199335.9375
                                     230113.63636364,
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                                     357040.37179487, 5075634.16666667,
                   435249.87931034,
                   671428.57142857],
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                   300642.88333333, 274342.29166667,
                                                       271730.60759494,
                   289759.875
                                 ],
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                                      74719.1025641 , 173883.33333333,
                   177908.40740741, 207630.42105263, 183544.30379747,
                   258427.41935484, 230855.26315789, 247629.87012987,
                   299194.20289855],
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                   218342.13636364, 228694.37681159,
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                   336701.34545455, 290298.50746269, 291006.15584416,
                   561450.
                                  ],
                 54794.63414634,
                                      58618.53658537,
                                                        73917.97560976,
                   174151.89873418,
                                   185397.43902439, 213425.38461538,
                   335032.77777778, 257057.36842105,
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                   522835.87804878],
                 [ 47828.57142857,
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                                                      185895.52238806,
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                                                       241360.75949367,
                   469190.90909091],
                 [ 40310.76923077,
                                      52815.
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                                     300455.55555556,
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                                     253992.25714286,
                                                       301103.72580645,
                   272663.41666667,
                   244738.57317073],
                                          0.
                                                        52140.
                        0.
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                                     205797.90123457,
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                                          0.
                                                            0.
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                                      66467.69230769,
                                                        68471.11111111,
                                                 inf, 1763268.8
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                   369860.29411765],
                                      75322.41176471, 255710.78431373,
                 [ 40425.6
                                     204933.92207792, 186842.10526316,
                   182412.41772152.
                   320224.48979592,
                                     249014.49275362, 345796.2962963,
```

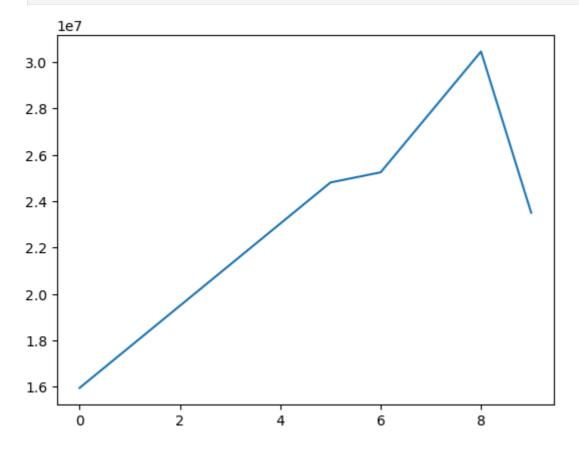
241935.48387097]])

```
In [65]: np.round(Salary/Games)
       C:\Users\ruchi\AppData\Local\Temp\ipykernel 14056\3232172828.py:1: RuntimeWarnin
        g: divide by zero encountered in divide
         np.round(Salary/Games)
Out[65]: array([[ 199336., 230114., 237691., 259299., 315539., 302515.,
                  435250., 357040., 5075634., 671429.],
                                                        197063., 226729.,
                [ 146341., 223582., 164492., 180159.,
                  300643., 274342., 271731., 289760.],
                [ 58504., 74719., 173883., 177908.,
                                                        207630., 183544.,
                  258427., 230855., 247630., 299194.],
                [ 46420.,
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                  336701., 290299., 291006., 561450.],
                [ 54795., 58619., 73918., 174152., 185397., 213425.,
                  335033., 257057., 288918., 522836.],
                           61380., 185896., 187150.,
                                                        225427., 188312.,
                [ 47829.,
                  281096., 237095., 241361., 469191.],
                [ 40311., 52815., 45200., 58643., 300456., 186752.,
                  272663., 253992., 301104., 244739.],
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                                               60595.,
                                                          58499.,
                                                                   77611.,
                  234949., 205798., 220156., 703542.],
                      0.,
                                0.,
                                          0., 59541.,
                                                         66468.,
                                                                   68471.,
                  179326.,
                               inf, 1763269., 369860.],
                           75322., 255711., 182412., 204934., 186842.,
                  40426.,
                  320224., 249014., 345796., 241935.]])
In [67]: import warnings
         warnings.filterwarnings('ignore')
In [69]: import matplotlib.pyplot as plt
In [70]: %matplotlib inline
In [71]: Salary
Out[71]: array([[15946875, 17718750, 19490625, 21262500, 23034375, 24806250,
                 25244493, 27849149, 30453805, 23500000],
                [12000000, 12744189, 13488377, 14232567, 14976754, 16324500,
                 18038573, 19752645, 21466718, 23180790],
                [ 4621800, 5828090, 13041250, 14410581, 15779912, 14500000,
                 16022500, 17545000, 19067500, 20644400],
                [ 3713640, 4694041, 13041250, 14410581, 15779912, 17149243,
                 18518574, 19450000, 22407474, 22458000],
                [ 4493160, 4806720, 6061274, 13758000, 15202590, 16647180,
                18091770, 19536360, 20513178, 21436271],
                [ 3348000, 4235220, 12455000, 14410581, 15779912, 14500000,
                 16022500, 17545000, 19067500, 20644400],
                [ 3144240, 3380160, 3615960, 4574189, 13520500, 14940153,
                 16359805, 17779458, 18668431, 20068563],
                                 0, 4171200, 4484040, 4796880, 6053663,
                 15506632, 16669630, 17832627, 18995624],
                                 0,
                                           0, 4822800, 5184480, 5546160,
                  6993708, 16402500, 17632688, 18862875],
                [ 3031920, 3841443, 13041250, 14410581, 15779912, 14200000,
                 15691000, 17182000, 18673000, 15000000]])
In [72]: | Salary[0]
```

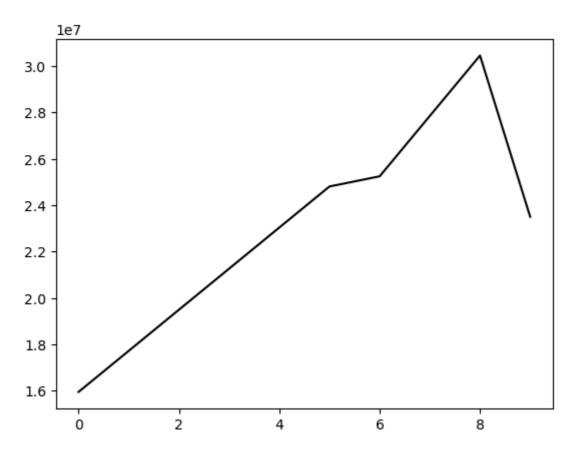
```
Out[72]: array([15946875, 17718750, 19490625, 21262500, 23034375, 24806250, 25244493, 27849149, 30453805, 23500000])
```

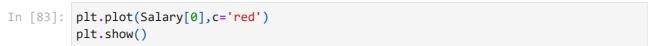
```
In [77]: %matplotlib inline
import matplotlib.pyplot as plt
```

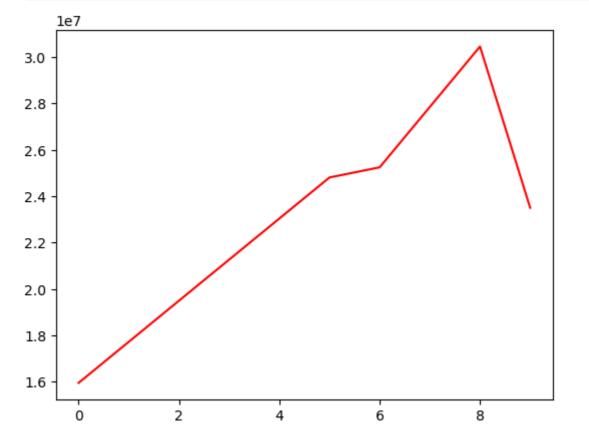
```
In [79]: plt.plot(Salary[0])
  plt.show()
```



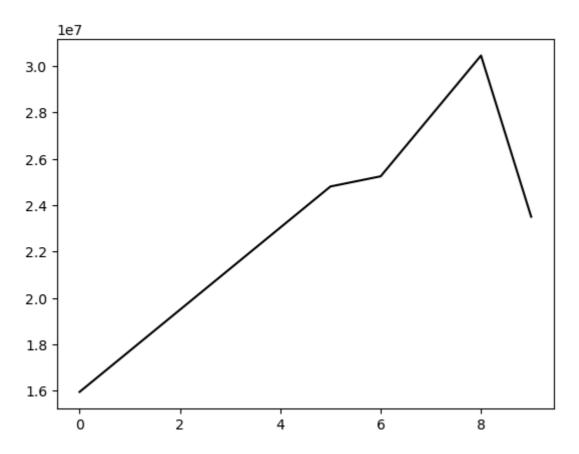
```
In [81]: plt.plot(Salary[0], color ='black')
   plt.show()
```



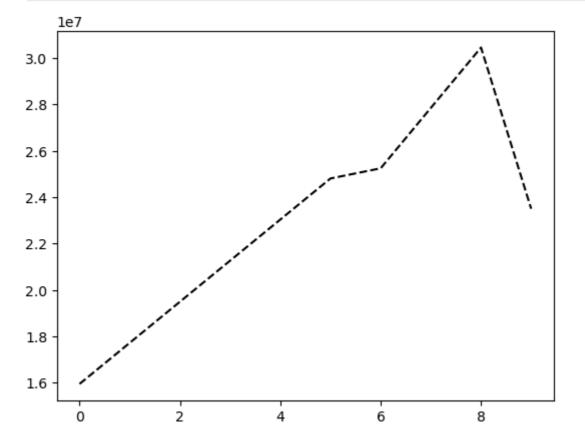




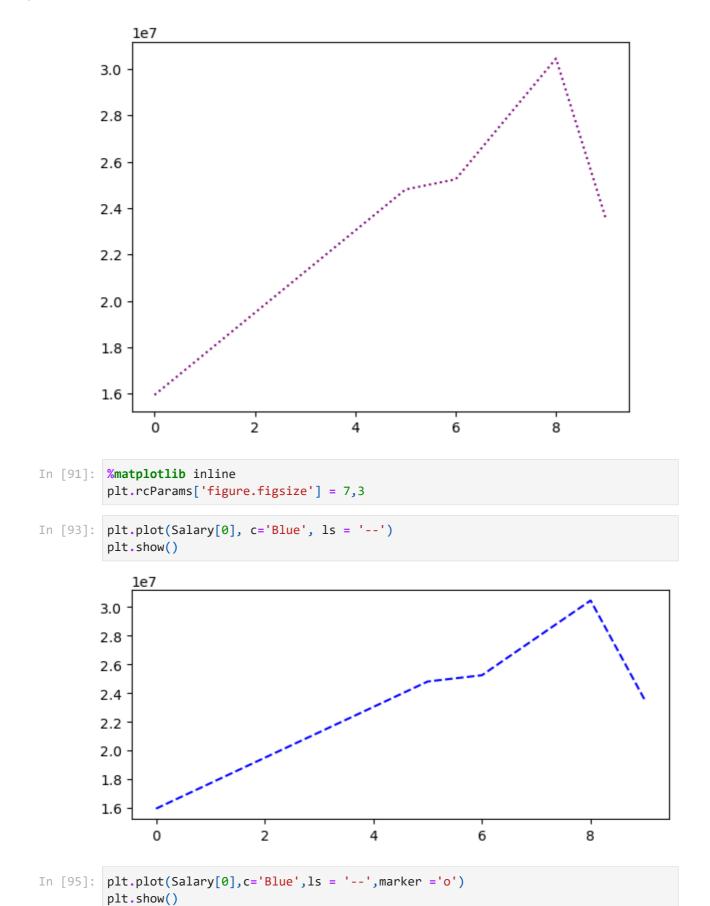
```
In [85]: plt.plot(Salary[0],color ='k')
  plt.show()
```

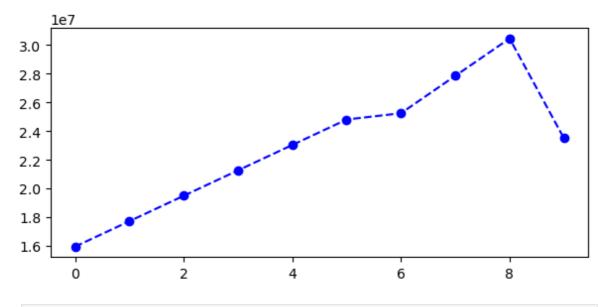


In [86]: plt.plot(Salary[0],color ='k', ls = '--')
plt.show()



```
In [89]: plt.plot(Salary[0],c='purple',ls ='dotted')
   plt.show()
```



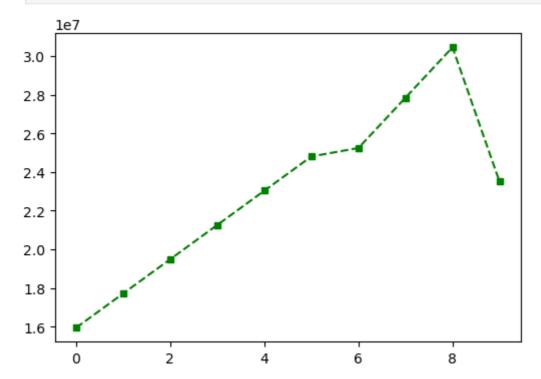


```
In [97]: Games
```

```
Out[97]: array([[80, 77, 82, 82, 73, 82, 58, 78, 6, 35], [82, 57, 82, 79, 76, 72, 60, 72, 79, 80], [79, 78, 75, 81, 76, 79, 62, 76, 77, 69], [80, 65, 77, 66, 69, 77, 55, 67, 77, 40], [82, 82, 82, 82, 79, 82, 78, 54, 76, 71, 41], [70, 69, 67, 77, 70, 77, 57, 74, 79, 44], [78, 64, 80, 78, 45, 80, 60, 70, 62, 82], [35, 35, 80, 74, 82, 78, 66, 81, 81, 27], [40, 40, 40, 40, 81, 78, 81, 39, 0, 10, 51], [75, 51, 51, 79, 77, 76, 49, 69, 54, 62]])
```

```
In [99]: %matplotlib inline
plt.rcParams['figure.figsize'] = 6,4
```

```
In [101... plt.plot(Salary[0], c ='Green', ls = '--', marker ='s', ms = 5)
plt.show()
```



```
In [103...
          list(range(0,10))
Out[103...
           [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
          Sdict
In [105...
Out[105...
           {'2015': 0,
            '2016': 1,
            '2017': 2,
            '2018': 3,
            '2019': 4,
            '2020': 5,
            '2021': 6,
            '2022': 7,
            '2023': 8,
            '2024': 9}
In [107...
           Pdict
           {'Sachin': 0,
Out[107...
            'Rahul': 1,
            'Smith': 2,
            'Sami': 3,
            'Pollard': 4,
            'Morris': 5,
            'Samson': 6,
            'Dhoni': 7,
            'Kohli': 8,
            'Sky': 9}
In [109...
           plt.plot(Salary[0], c='blue', ls='--',marker = 's', ms= 7)
           plt.xticks(list(range(0,10)), Seasons)
           plt.show()
              1e7
          3.0
          2.8
          2.6
          2.4
          2.2
          2.0
          1.8
          1.6
               2015 2016 2017 2018 2019 2020 2021 2022 2023 2024
In [111...
           plt.plot(Salary[0], c='blue', ls='--',marker = 's', ms= 5)
           plt.xticks(list(range(0,10)), Seasons, rotation='vertical')
```

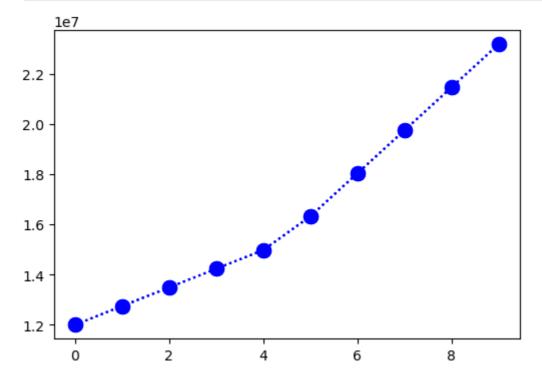
plt.show() 1e7 3.0 2.8 2.6 2.4 2.2 2.0 1.8 1.6 2015 2016 2023 2021 plt.plot(Salary[0], c='green', ls='--',marker = 's', ms= 5) In [113... plt.xticks(list(range(0,10)), Seasons, rotation='horizontal') plt.show() 1e7 3.0 2.8 2.6 2.4 2.2 2.0 1.8 1.6 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 In [115... Salary[0] Out[115... array([15946875, 17718750, 19490625, 21262500, 23034375, 24806250, 25244493, 27849149, 30453805, 23500000])

Salary[1]

In [117...

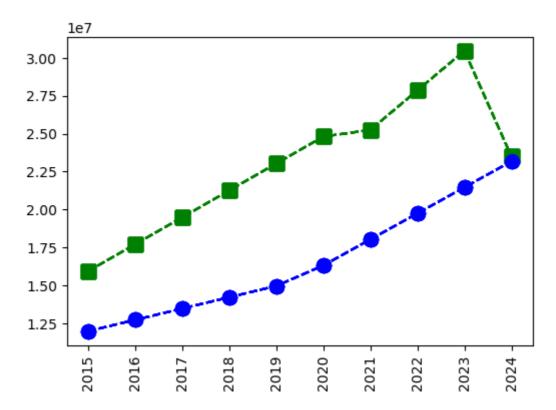
Out[117... array([12000000, 12744189, 13488377, 14232567, 14976754, 16324500, 18038573, 19752645, 21466718, 23180790])

```
In [123... plt.plot(Salary[1], c='Blue', ls = ':', marker ='o', ms=10,label = Players[1])
    plt.show()
```

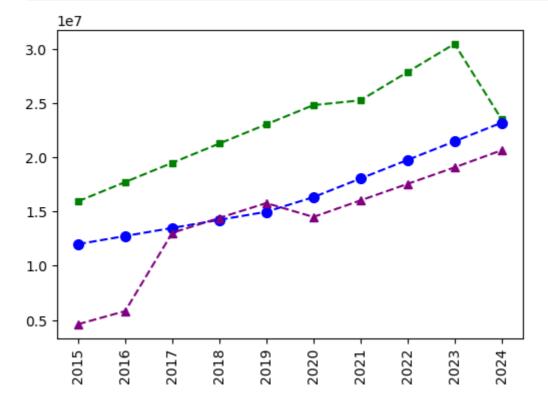


## more visualization

```
In [142...
plt.plot(Salary [0], c ='Green', ls = '--', marker = 's', ms = 10, label = Playe
plt.plot(Salary [1], c ='Blue', ls = '--', marker = 'o', ms = 10, label = Player
plt.xticks(list(range(0,10)), Seasons, rotation = 'vertical')
plt.show()
```

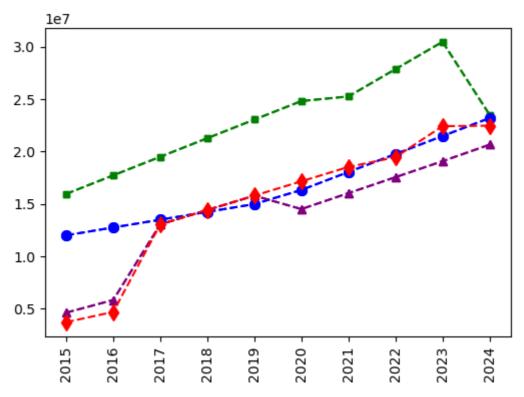


In [154...
plt.plot(Salary [0], c ='Green', ls = '--', marker = 's', ms = 5, label = Player
plt.plot(Salary [1], c ='Blue', ls = '--', marker = 'o', ms = 7, label = Players
plt.plot(Salary [2], c ='Purple', ls = '--', marker ='^', ms = 6, label = Players[
plt.xticks(list(range(0,10)), Seasons, rotation = 'vertical')
plt.show()

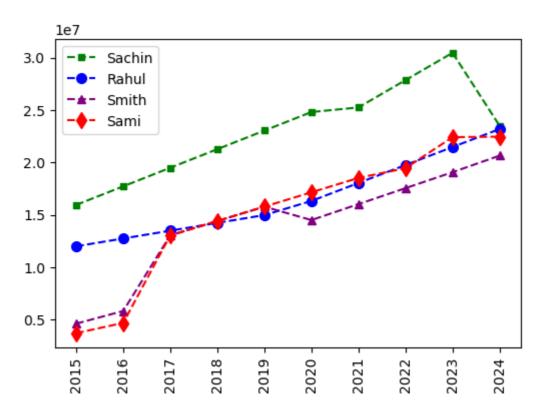


```
plt.plot(Salary [0], c ='Green', ls = '--', marker = 's', ms = 5, label = Player
plt.plot(Salary [1], c ='Blue', ls = '--', marker = 'o', ms = 7, label = Players
plt.plot(Salary [2], c ='Purple', ls = '--', marker = '^', ms = 6, label = Players[
plt.plot(Salary [3], c = 'Red', ls = '--', marker = 'd', ms = 8, label = Players
```

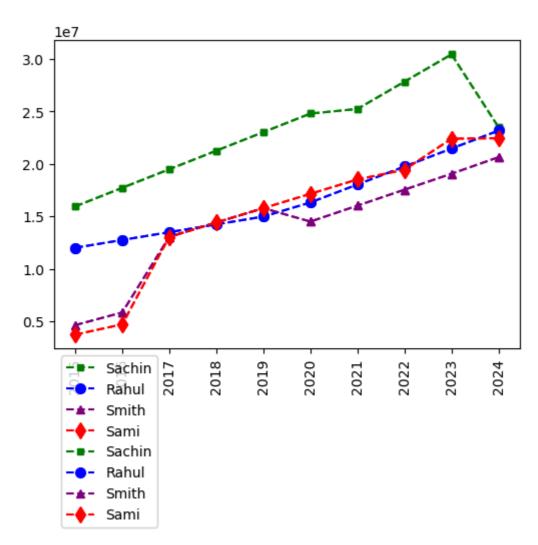
```
plt.xticks(list(range(0,10)),Seasons,rotation = 'vertical')
plt.show()
```



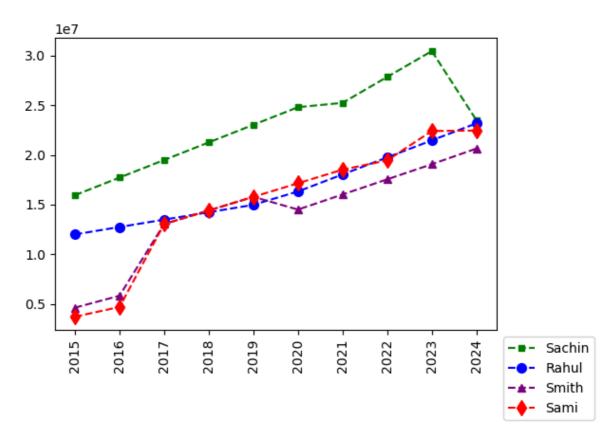
```
In [160... plt.plot(Salary [0], c ='Green', ls = '--', marker = 's', ms = 5, label = Player
plt.plot(Salary [1], c ='Blue', ls = '--', marker = 'o', ms = 7, label = Players
plt.plot(Salary [2], c ='Purple', ls = '--', marker = '^', ms = 6, label = Players[
plt.plot(Salary [3], c = 'Red', ls = '--', marker = 'd', ms = 8, label = Players
plt.legend()
plt.xticks(list(range(0,10)), Seasons, rotation = 'vertical')
plt.show()
```



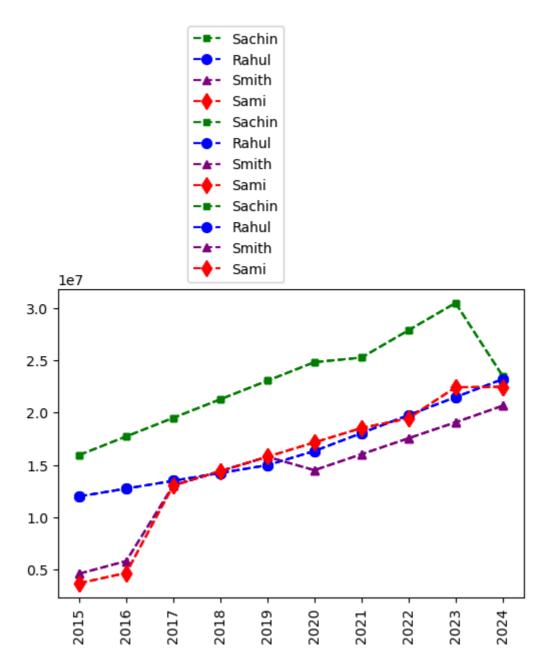
```
In [164... plt.plot(Salary [0], c ='Green', ls = '--', marker = 's', ms = 5, label = Player
plt.plot(Salary [1], c ='Blue', ls = '--', marker = 'o', ms = 7, label = Players
plt.plot(Salary [2], c ='Purple', ls = '--', marker ='^', ms = 6, label = Players[
plt.plot(Salary [3], c = 'Red', ls = '--', marker = 'd', ms = 8, label = Players
plt.legend(loc = 'upper left', bbox_to_anchor=(0,0))
plt.xticks(list(range(0,10)), Seasons, rotation = 'vertical')
```



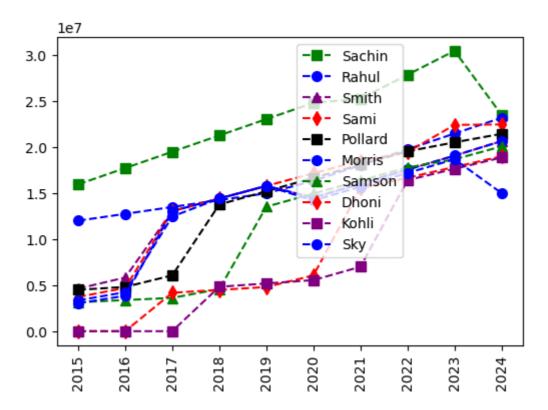
```
In [166... plt.plot(Salary [0], c ='Green', ls = '--', marker = 's', ms = 5, label = Player
plt.plot(Salary [1], c ='Blue', ls = '--', marker = 'o', ms = 7, label = Players
plt.plot(Salary [2], c ='Purple', ls = '--', marker ='^', ms = 6, label = Players[
plt.plot(Salary [3], c = 'Red', ls = '--', marker = 'd', ms = 8, label = Players
plt.legend(loc = 'upper left', bbox_to_anchor=(1,0))
plt.xticks(list(range(0,10)), Seasons, rotation = 'vertical')
```



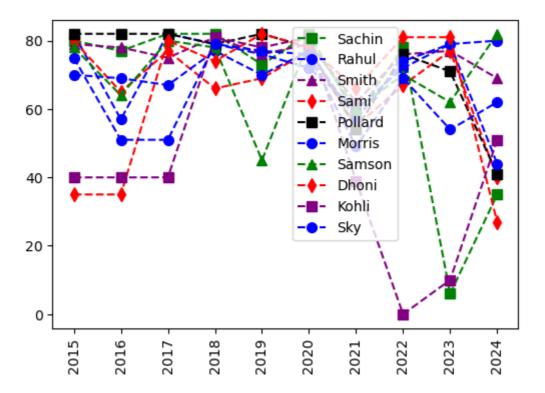
```
plt.plot(Salary [0], c ='Green', ls = '--', marker = 's', ms = 5, label = Player
plt.plot(Salary [1], c ='Blue', ls = '--', marker = 'o', ms = 7, label = Players
plt.plot(Salary [2], c ='Purple', ls = '--', marker ='^', ms = 6, label = Players[
plt.plot(Salary [3], c = 'Red', ls = '--', marker = 'd', ms = 8, label = Players
plt.legend(loc = 'lower right', bbox_to_anchor=(0.5,1))
plt.xticks(list(range(0,10)), Seasons, rotation = 'vertical')
```



```
In [176...
plt.plot(Salary [0], c ='Green', ls = '--', marker = 's', ms = 7, label = Player
plt.plot(Salary [1], c ='Blue', ls = '--', marker = 'o', ms = 7, label = Players
plt.plot(Salary [2], c ='Purple', ls = '--', marker = '^', ms = 7, label = Players[
plt.plot(Salary [3], c = 'Red', ls = '--', marker = 'd', ms = 7, label = Players
plt.plot(Salary [4], c ='Black', ls = '--', marker = 's', ms = 7, label = Players
plt.plot(Salary [5], c ='Blue', ls = '--', marker = 'o', ms = 7, label = Players
plt.plot(Salary [6], c ='Green', ls = '--', marker = '^', ms = 7, label = Players
plt.plot(Salary [8], c = 'Purple', ls = '--', marker = 'd', ms = 7, label = Players
plt.plot(Salary [8], c = 'Purple', ls = '--', marker = 's', ms = 7, label = Player
plt.plot(Salary [9], c = 'Blue', ls = '--', marker = 'o', ms = 7, label = Players
plt.legend(loc = 'upper left', bbox_to_anchor=(0.5,1))
plt.xticks(list(range(0,10)), Seasons, rotation = 'vertical')
```



```
In [178...
plt.plot(Games [0], c ='Green', ls = '--', marker = 's', ms = 7, label = Players
plt.plot(Games [1], c ='Blue', ls = '--', marker = 'o', ms = 7, label = Players[
plt.plot(Games [2], c ='Purple', ls = '--', marker ='^', ms = 7, label = Players[2]
plt.plot(Games [3], c = 'Red', ls = '--', marker = 'd', ms = 7, label = Players[2]
plt.plot(Games [4], c ='Black', ls = '--', marker = 's', ms = 7, label = Players[2]
plt.plot(Games [5], c ='Blue', ls = '--', marker = 'o', ms = 7, label = Players[2]
plt.plot(Games [6], c ='Green', ls = '--', marker = '\d', ms = 7, label = Players[6]
plt.plot(Games [7], c = 'Red', ls = '--', marker = '\d', ms = 7, label = Players[2]
plt.plot(Games [8], c='Purple', ls = '--', marker = '\d', ms = 7, label = Players[2]
plt.plot(Games [9], c ='Blue', ls = '--', marker = '\d', ms = 7, label = Players[2]
plt.legend(loc = 'upper left', bbox_to_anchor=(0.5,1))
plt.xticks(list(range(0,10)), Seasons, rotation = 'vertical')
```



In [ ]: