```
In [1]: #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 [2]: Salary
```

```
Out[2]: 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 [3]: Games
Out[3]: 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 [4]: Points
Out[4]: 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 [5]: Games
Out[5]: 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 [6]: Games[5]
 Out[6]: array([70, 69, 67, 77, 70, 77, 57, 74, 79, 44])
 In [7]: Games[0:5]
 Out[7]: 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 [8]: Games[0,5]
 Out[8]: 82
 In [9]: Games[0,2]
Out[9]: 82
In [10]: Games[0:2]
Out[10]: array([[80, 77, 82, 82, 73, 82, 58, 78, 6, 35],
                 [82, 57, 82, 79, 76, 72, 60, 72, 79, 80]])
In [11]:
        Games
Out[11]: 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 [12]: Games[-3:-1]
Out[12]: array([[35, 35, 80, 74, 82, 78, 66, 81, 81, 27],
                 [40, 40, 40, 81, 78, 81, 39, 0, 10, 51]])
In [13]: Games[-1:-3]
Out[13]: array([], shape=(0, 10), dtype=int32)
In [14]: Games[-3,-1]
Out[14]: 27
In [15]: Points
```

```
Out[15]: array([[2832, 2430, 2323, 2201, 1970, 2078, 1616, 2133,
                 [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, 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 [16]: Points[0]
Out[16]: array([2832, 2430, 2323, 2201, 1970, 2078, 1616, 2133,
                                                                  83,
                                                                        782])
In [17]: Points[:]
Out[17]: array([[2832, 2430, 2323, 2201, 1970, 2078, 1616, 2133,
                 [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 [18]: Points[6,1]
Out[18]: 1104
In [19]: Points[3:6]
Out[19]: array([[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,
                                                                         928]])
In [20]:
         Points[-6:-1]
Out[20]: array([[1292, 1443, 1695, 1624, 1503, 1784, 1113, 1296, 1297,
                                                                         646],
                 [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,
In [21]: Pdict
Out[21]: {'Sachin': 0,
           'Rahul': 1,
           'Smith': 2,
           'Sami': 3,
           'Pollard': 4,
           'Morris': 5,
           'Samson': 6,
           'Dhoni': 7,
           'Kohli': 8,
           'Sky': 9}
```

```
In [22]: Pdict['Sachin']
Out[22]: 0
In [23]: Games[0]
Out[23]: array([80, 77, 82, 82, 73, 82, 58, 78, 6, 35])
In [24]: Games[Pdict['Sachin']]
Out[24]: array([80, 77, 82, 82, 73, 82, 58, 78, 6, 35])
In [25]: Pdict['Rahul']
Out[25]: 1
In [26]: Games[Pdict['Rahul']]
Out[26]: array([82, 57, 82, 79, 76, 72, 60, 72, 79, 80])
In [27]: Salary[Pdict['Rahul']]
Out[27]: array([12000000, 12744189, 13488377, 14232567, 14976754, 16324500,
                18038573, 19752645, 21466718, 23180790])
In [28]:
         Points
Out[28]: 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,
                [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 [29]: Salary
```

```
Out[29]: 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,
                                  0, 4171200, 4484040, 4796880,
                 15506632, 16669630, 17832627, 18995624],
                                            0, 4822800, 5184480, 5546160,
                                   0,
                  6993708, 16402500, 17632688, 18862875],
                 [ 3031920, 3841443, 13041250, 14410581, 15779912, 14200000,
                 15691000, 17182000, 18673000, 15000000]])
In [30]: Games
Out[30]: 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 [31]: Salary/Games
        C:\Users\91939\AppData\Local\Temp\ipykernel_15592\3709746658.py:1: RuntimeWarnin
        g: divide by zero encountered in divide
```

Salary/Games

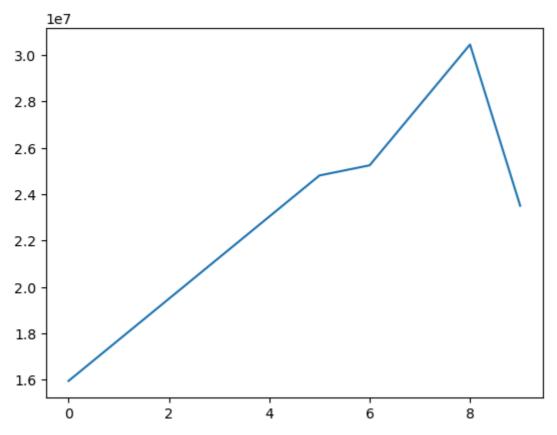
```
Out[31]: array([[ 199335.9375
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                  671428.57142857],
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                  299194.20289855],
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                [ 46420.5
                  218342.13636364, 228694.37681159, 222717.44155844,
                  336701.34545455, 290298.50746269, 291006.15584416,
                           ],
                [ 54794.63414634, 58618.53658537, 73917.97560976,
                  174151.89873418, 185397.43902439, 213425.38461538,
                  335032.77777778, 257057.36842105, 288918.
                  522835.87804878],
                                                 , 185895.52238806,
                [ 47828.57142857,
                                    61380.
                  187150.4025974 , 225427.31428571, 188311.68831169,
                  281096.49122807, 237094.59459459, 241360.75949367,
                  469190.90909091],
                [ 40310.76923077,
                                   52815.
                                                    45199.5
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                  272663.41666667, 253992.25714286, 301103.72580645,
                  244738.57317073],
                       0.
                                        0.
                                                      52140.
                   60595.13513514, 58498.53658537, 77611.06410256,
                  234948.96969697, 205797.90123457, 220155.88888889,
                  703541.62962963],
                       0.
                                        0.
                                                         0.
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                                    66467.69230769, 68471.11111111,
                                               inf, 1763268.8
                  179325.84615385,
                  369860.29411765],
                [ 40425.6
                                   75322.41176471, 255710.78431373,
                  182412.41772152, 204933.92207792, 186842.10526316,
                  320224.48979592, 249014.49275362, 345796.2962963,
                  241935.48387097]])
In [32]: import warnings
         warnings.filterwarnings('ignore')
In [33]: np.round(Salary/Games)
```

```
Out[33]: array([[ 199336., 230114., 237691., 259299., 315539., 302515.,
                 435250., 357040., 5075634., 671429.],
               [ 146341., 223582., 164492.,
                                            180159., 197063., 226729.,
                 300643., 274342., 271731., 289760.],
               [ 58504., 74719., 173883., 177908.,
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                          72216., 169367., 218342.,
               [ 46420.,
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                 336701., 290299., 291006., 561450.],
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                          58619.,
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                         61380., 185896., 187150., 225427., 188312.,
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                                   45200.,
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                                                      300456., 186752.,
               [ 40311.,
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                               0., 52140., 60595.,
                                                      58499.,
                                                              77611.,
                 234949., 205798., 220156., 703542.],
                                        0.,
                                             59541.,
                                                      66468.,
                      0.,
                              0.,
                                                               68471.,
                              inf, 1763269., 369860.],
                 179326.,
               [ 40426.,
                         75322., 255711., 182412., 204934., 186842.,
                 320224., 249014., 345796., 241935.]])
```

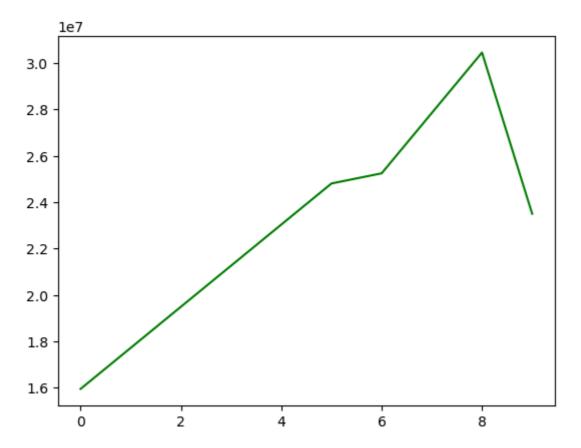
## ----First Visualization----

```
In [34]: import numpy as np
         import matplotlib.pyplot as plt
In [35]: %matplotlib inline
In [36]: Salary
Out[36]: 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 [37]: Salary[0]
Out[37]: array([15946875, 17718750, 19490625, 21262500, 23034375, 24806250,
                 25244493, 27849149, 30453805, 23500000])
In [38]: plt.plot(Salary[0])
```

Out[38]: [<matplotlib.lines.Line2D at 0x17acacddb80>]

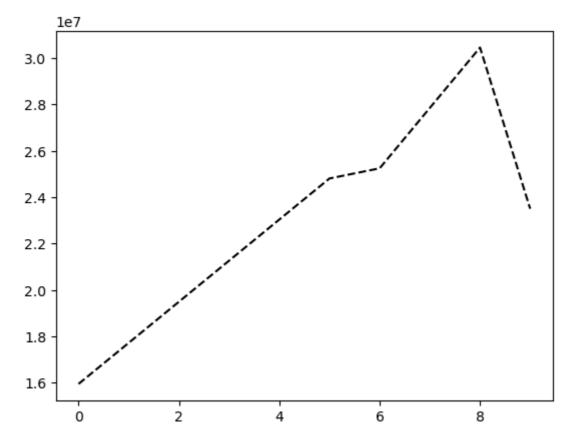


Out[40]: [<matplotlib.lines.Line2D at 0x17acae87b60>]



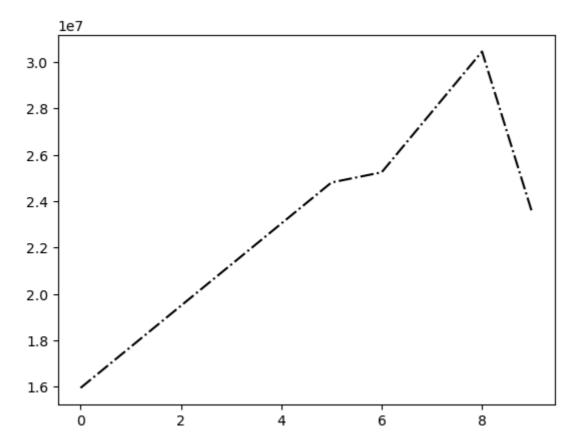
In [41]: plt.plot(Salary[0], color = 'k', ls = '--')

Out[41]: [<matplotlib.lines.Line2D at 0x17acaf2d820>]



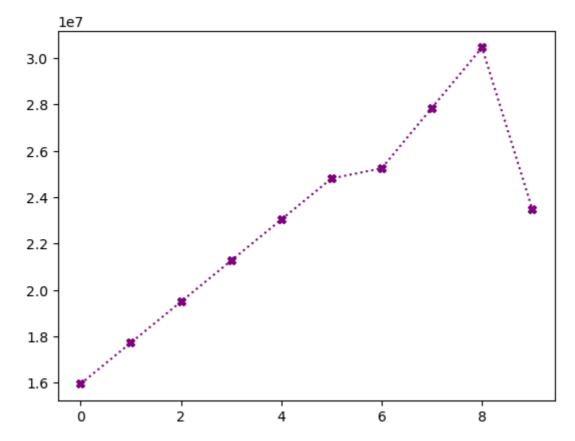
In [42]: plt.plot(Salary[0], color = 'k', ls = '-.')

Out[42]: [<matplotlib.lines.Line2D at 0x17acaf8cb90>]



```
In [43]: plt.plot(Salary[0], color = 'purple', ls = ':' , marker = 'X')
```

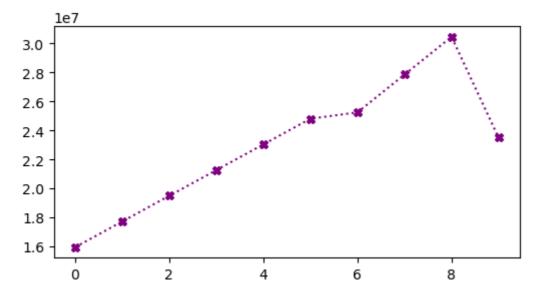
Out[43]: [<matplotlib.lines.Line2D at 0x17acc6e87d0>]



```
In [44]: %matplotlib inline
   plt.rcParams['figure.figsize'] = 6,3
```

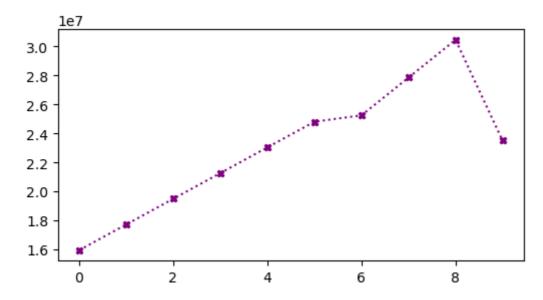
```
In [45]: plt.plot(Salary[0], color = 'purple', ls = ':' , marker = 'X')
```

Out[45]: [<matplotlib.lines.Line2D at 0x17acc745d30>]



```
In [46]: plt.plot(Salary[0], color = 'purple', ls = ':' , marker = 'X' , ms = 5)
```

Out[46]: [<matplotlib.lines.Line2D at 0x17acc6ea090>]



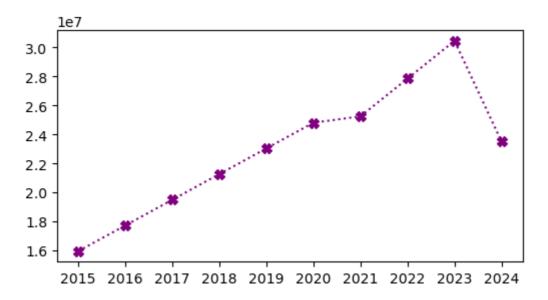
```
In [47]: plt.plot(Salary[0], color = 'purple', ls = ':' , marker = 'X' , ms = 10)
```

Out[47]: [<matplotlib.lines.Line2D at 0x17acc813500>]

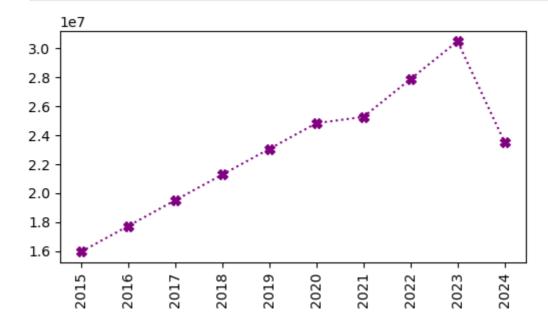
```
1e7
         3.0
         2.8
         2.6
         2.4
         2.2
         2.0
         1.8
         1.6
                             2
                                           4
                0
                                                         6
                                                                       8
In [48]: list(range(0,10))
Out[48]: [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
In [49]:
         Sdict
Out[49]: {'2015': 0,
           '2016': 1,
           '2017': 2,
           '2018': 3,
           '2019': 4,
           '2020': 5,
           '2021': 6,
           '2022': 7,
           '2023': 8,
           '2024': 9}
In [50]:
          Pdict
Out[50]: {'Sachin': 0,
           'Rahul': 1,
           'Smith': 2,
           'Sami': 3,
           'Pollard': 4,
           'Morris': 5,
           'Samson': 6,
           'Dhoni': 7,
           'Kohli': 8,
           'Sky': 9}
In [51]: plt.plot(Salary[0], color = 'purple', ls = ':' , marker = 'X' , ms = 7)
```

plt.show()

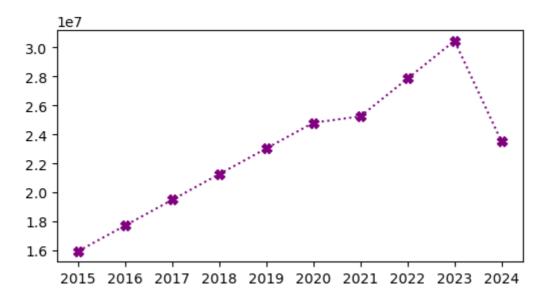
plt.xticks(list(range(0,10)), Seasons)

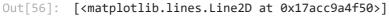


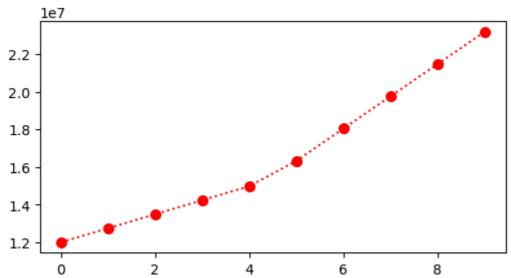
```
In [52]: plt.plot(Salary[0], color = 'purple', ls = ':', marker = 'X', ms = 7)
    plt.xticks(list(range(0,10)), Seasons, rotation= 'vertical')
    plt.show()
```



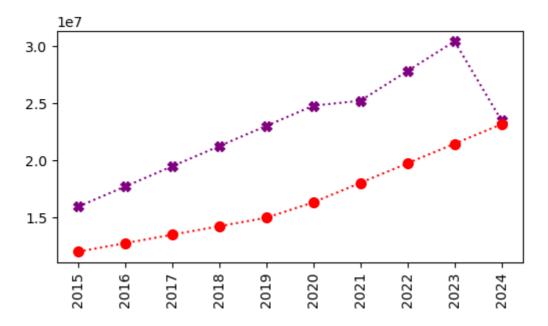
```
In [53]: plt.plot(Salary[0], color = 'purple', ls = ':' , marker = 'X' , ms = 7)
   plt.xticks(list(range(0,10)), Seasons , rotation= 'horizontal')
   plt.show()
```





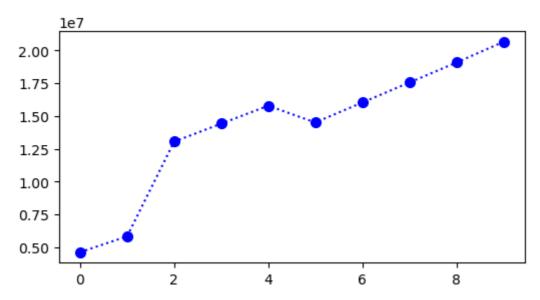


```
In [57]: plt.plot(Salary[0], color = 'purple', ls = ':', marker = 'X', ms = 7)
    plt.plot(Salary[1], color = 'red', ls = ':', marker = 'o', ms = 7)
    plt.xticks(list(range(0,10)), Seasons, rotation= 'vertical')
    plt.show()
```

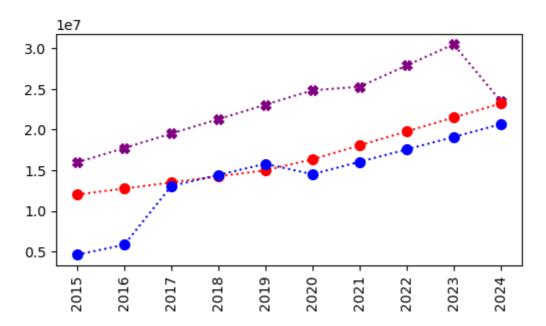


```
In [58]: plt.plot(Salary[2], color = 'blue', ls = ':' , marker = 'o' , ms = 7)
```

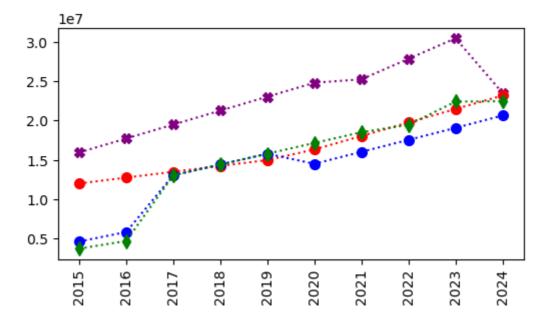
Out[58]: [<matplotlib.lines.Line2D at 0x17acca84980>]



```
In [59]: plt.plot(Salary[0], color = 'purple', ls = ':', marker = 'X', ms = 7)
  plt.plot(Salary[1], color = 'red', ls = ':', marker = 'o', ms = 7)
  plt.plot(Salary[2], color = 'blue', ls = ':', marker = 'o', ms = 7)
  plt.xticks(list(range(0,10)), Seasons, rotation= 'vertical')
  plt.show()
```

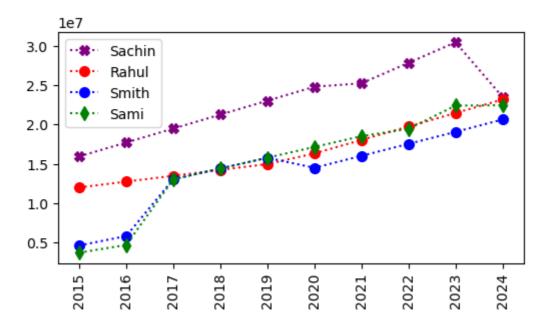


```
In [60]: plt.plot(Salary[0], color = 'purple', ls = ':' , marker = 'X' , ms = 7)
    plt.plot(Salary[1], color = 'red', ls = ':' , marker = 'o' , ms = 7)
    plt.plot(Salary[2], color = 'blue', ls = ':' , marker = 'o' , ms = 7)
    plt.plot(Salary[3], color = 'green', ls = ':' , marker = 'd' , ms = 7)
    plt.xticks(list(range(0,10)), Seasons , rotation= 'vertical')
    plt.show()
```



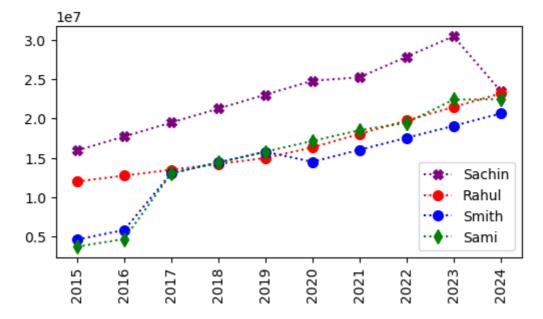
```
In [61]: plt.plot(Salary[0], color = 'purple', ls = ':' , marker = 'X' , ms = 7,label=Pla
plt.plot(Salary[1], color = 'red', ls = ':' , marker = 'o' , ms = 7,label=Player
plt.plot(Salary[2], color = 'blue', ls = ':' , marker = 'o' , ms = 7,label=Playe
plt.plot(Salary[3], color = 'green', ls = ':' , marker = 'd' , ms = 7,label=Play

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

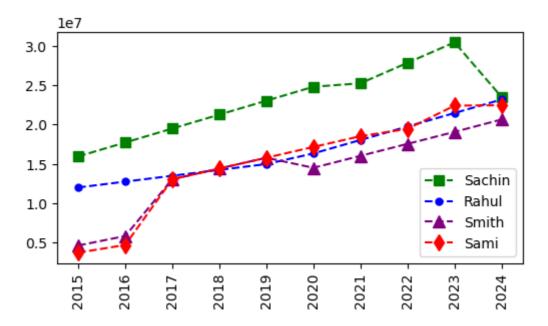


```
In [62]: plt.plot(Salary[0], color = 'purple', ls = ':' , marker = 'X' , ms = 7,label=Pla
plt.plot(Salary[1], color = 'red', ls = ':' , marker = 'o' , ms = 7,label=Player
plt.plot(Salary[2], color = 'blue', ls = ':' , marker = 'o' , ms = 7,label=Player
plt.plot(Salary[3], color = 'green', ls = ':' , marker = 'd' , ms = 7,label=Play

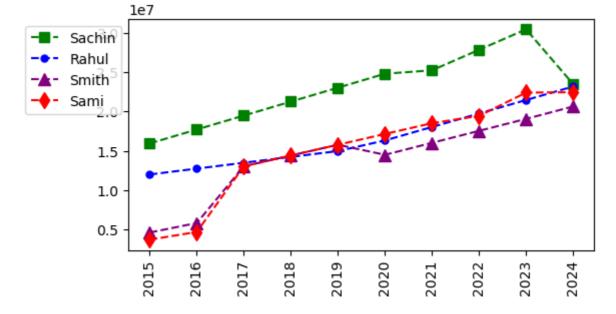
plt.legend(loc = 'lower right')
plt.xticks(list(range(0,10)), Seasons , rotation= 'vertical')
plt.show()
```



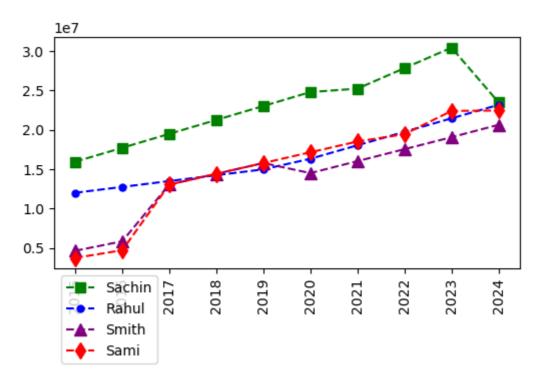
```
In [63]: plt.plot(Salary[0], c='Green', ls = '--', marker = 's', ms = 7, label = Players[
    plt.plot(Salary[1], c='Blue', ls = '--', marker = 'o', ms = 5, label = Players[1]
    plt.plot(Salary[2], c='purple', ls = '--', marker = '^', ms = 8, label = Players
    plt.plot(Salary[3], c='Red', ls = '--', marker = 'd', ms = 8, label = Players[3]
    plt.legend(loc='lower right', bbox_to_anchor=(1, 0))
    plt.xticks(list(range(0,10)), Seasons,rotation='vertical')
```



In [64]: plt.plot(Salary[0], c='Green', ls = '--', marker = 's', ms = 7, label = Players[
 plt.plot(Salary[1], c='Blue', ls = '--', marker = 'o', ms = 5, label = Players[1]
 plt.plot(Salary[2], c='purple', ls = '--', marker = '^', ms = 8, label = Players
 plt.plot(Salary[3], c='Red', ls = '--', marker = 'd', ms = 8, label = Players[3]
 plt.legend(bbox\_to\_anchor=(0, 1))
 plt.xticks(list(range(0,10)), Seasons,rotation='vertical')

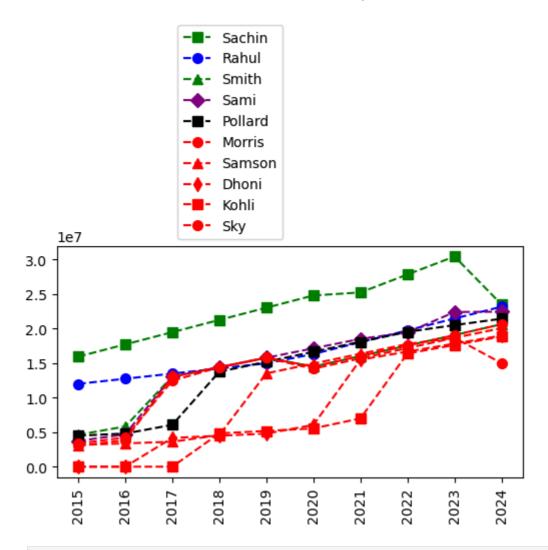


```
In [65]: plt.plot(Salary[0], c='Green', ls = '--', marker = 's', ms = 7, label = Players[
    plt.plot(Salary[1], c='Blue', ls = '--', marker = 'o', ms = 5, label = Players[1]
    plt.plot(Salary[2], c='purple', ls = '--', marker = '^', ms = 8, label = Players
    plt.plot(Salary[3], c='Red', ls = '--', marker = 'd', ms = 8, label = Players[3]
    plt.legend(loc = 'upper left', bbox_to_anchor=(0,0))
    plt.xticks(list(range(0,10)), Seasons, rotation='vertical')
```



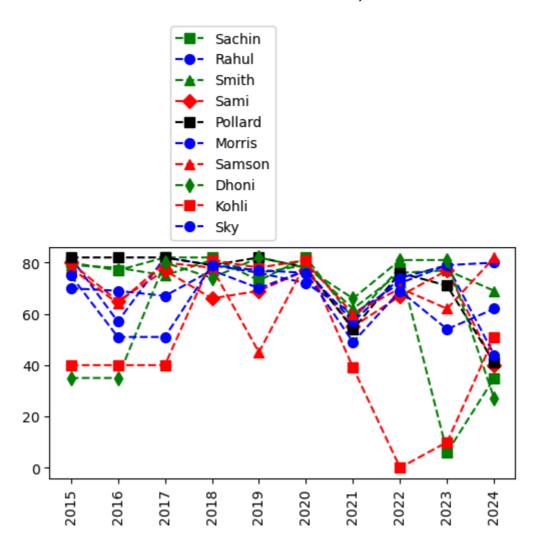
```
In [66]: plt.plot(Salary[0], c='Green', ls = '--', marker = 's', ms = 7, label = Players[
    plt.plot(Salary[1], c='Blue', ls = '--', marker = 'o', ms = 7, label = Players[1]
    plt.plot(Salary[2], c='Green', ls = '--', marker = '^', ms = 7, label = Players[1]
    plt.plot(Salary[3], c='Purple', ls = '--', marker = 'D', ms = 7, label = Players[1]
    plt.plot(Salary[4], c='Black', ls = '--', marker = 's', ms = 7, label = Players[5]
    plt.plot(Salary[5], c='Red', ls = '--', marker = 'o', ms = 7, label = Players[6]
    plt.plot(Salary[6], c='Red', ls = '--', marker = 'd', ms = 7, label = Players[7]
    plt.plot(Salary[8], c='Red', ls = '--', marker = 's', ms = 7, label = Players[8]
    plt.plot(Salary[9], c='Red', ls = '--', marker = 'o', ms = 7, label = Players[9]

    plt.legend(loc = 'lower right',bbox_to_anchor=(0.5,1))
    plt.xticks(list(range(0,10)), Seasons,rotation='vertical')
```



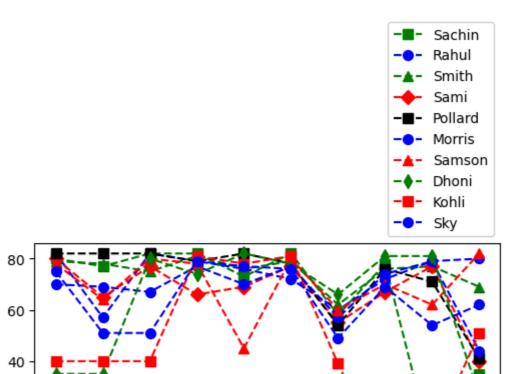
```
In [67]: plt.plot(Games[0], c='Green', ls = '--', marker = 's', ms = 7, label = Players[0]
    plt.plot(Games[1], c='Blue', ls = '--', marker = 'o', ms = 7, label = Players[1]
    plt.plot(Games[2], c='Green', ls = '--', marker = '^', ms = 7, label = Players[2]
    plt.plot(Games[3], c='Red', ls = '--', marker = 'D', ms = 7, label = Players[3])
    plt.plot(Games[4], c='Black', ls = '--', marker = 's', ms = 7, label = Players[4]
    plt.plot(Games[5], c='Blue', ls = '--', marker = 'o', ms = 7, label = Players[5]
    plt.plot(Games[6], c='red', ls = '--', marker = 'A'', ms = 7, label = Players[6])
    plt.plot(Games[8], c='Red', ls = '--', marker = 'd', ms = 7, label = Players[8])
    plt.plot(Games[9], c='Blue', ls = '--', marker = 's', ms = 7, label = Players[9]

plt.legend(loc = 'lower right', bbox_to_anchor=(0.5,1))
    plt.xticks(list(range(0,10)), Seasons,rotation='vertical')
```



```
In [68]: plt.plot(Games[0], c='Green', ls = '--', marker = 's', ms = 7, label = Players[0]
    plt.plot(Games[1], c='Blue', ls = '--', marker = 'o', ms = 7, label = Players[1]
    plt.plot(Games[2], c='Green', ls = '--', marker = '^', ms = 7, label = Players[2]
    plt.plot(Games[3], c='Red', ls = '--', marker = 'D', ms = 7, label = Players[3])
    plt.plot(Games[4], c='Black', ls = '--', marker = 's', ms = 7, label = Players[4]
    plt.plot(Games[5], c='Blue', ls = '--', marker = 'o', ms = 7, label = Players[5]
    plt.plot(Games[6], c='red', ls = '--', marker = '\d', ms = 7, label = Players[6])
    plt.plot(Games[7], c='Green', ls = '--', marker = '\d', ms = 7, label = Players[8])
    plt.plot(Games[9], c='Blue', ls = '--', marker = '\s', ms = 7, label = Players[9]

    plt.legend(loc = 'lower right',bbox_to_anchor=(1,1) )
    plt.xticks(list(range(0,10)), Seasons,rotation='vertical')
```

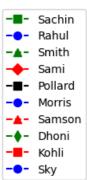


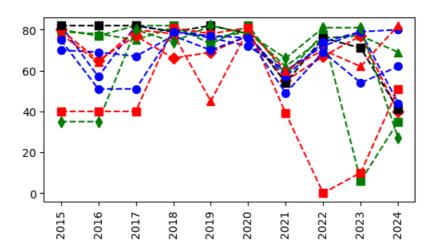
2015 2019 2020 2017 In [69]: plt.plot(Games[0], c='Green', ls = '--', marker = 's', ms = 7, label = Players[0] plt.plot(Games[1], c='Blue', ls = '--', marker = 'o', ms = 7, label = Players[1] plt.plot(Games[2], c='Green', ls = '--', marker = '^', ms = 7, label = Players[2 plt.plot(Games[3], c='Red', ls = '--', marker = 'D', ms = 7, label = Players[3]) plt.plot(Games[4], c='Black', 1s = '--', marker = 's', ms = 7, label = Players[4 plt.plot(Games[5], c='Blue', ls = '--', marker = 'o', ms = 7, label = Players[5] plt.plot(Games[6], c='red', ls = '--', marker = '^', ms = 7, label = Players[6]) plt.plot(Games[7], c='Green', ls = '--', marker = 'd', ms = 7, label = Players[7 plt.plot(Games[8], c='Red', ls = '--', marker = 's', ms = 7, label = Players[8]) plt.plot(Games[9], c='Blue', ls = '--', marker = 'o', ms = 7, label = Players[9] plt.legend(loc = 'lower right',bbox\_to\_anchor=(1.5,1) ) plt.xticks(list(range(0,10)), Seasons,rotation='vertical')

plt.show()

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```
In [70]: plt.plot(Games[0], c='Green', ls = '--', marker = 's', ms = 7, label = Players[0]
    plt.plot(Games[1], c='Blue', ls = '--', marker = 'o', ms = 7, label = Players[1]
    plt.plot(Games[2], c='Green', ls = '--', marker = '^', ms = 7, label = Players[2]
    plt.plot(Games[3], c='Red', ls = '--', marker = 'D', ms = 7, label = Players[3])
    plt.plot(Games[4], c='Black', ls = '--', marker = 's', ms = 7, label = Players[4]
    plt.plot(Games[5], c='Blue', ls = '--', marker = 'o', ms = 7, label = Players[5]
    plt.plot(Games[6], c='red', ls = '--', marker = 'A', ms = 7, label = Players[6])
    plt.plot(Games[8], c='Green', ls = '--', marker = 'd', ms = 7, label = Players[8])
    plt.plot(Games[9], c='Blue', ls = '--', marker = 's', ms = 7, label = Players[8])
    plt.plot(Games[9], c='Blue', ls = '--', marker = 'o', ms = 7, label = Players[9]

    plt.legend(bbox_to_anchor=(0.5,2))
    plt.xticks(list(range(0,10)), Seasons,rotation='vertical')
```

