In [1]:

```
#Seasons
Seasons = ["2005","2006","2007","2008","2009","2010","2011","2012","2013","2014"]
Sdict = {"2005":0,"2006":1,"2007":2,"2008":3,"2009":4,"2010":5,"2011":6,"2012":7,"20
#Players
Players = ["KobeBryant", "JoeJohnson", "LeBronJames", "CarmeloAnthony", "DwightHoward",
Pdict = {"KobeBryant":0, "JoeJohnson":1, "LeBronJames":2, "CarmeloAnthony":3, "DwightHow
#Salaries
KobeBryant Salary = [15946875, 17718750, 19490625, 21262500, 23034375, 24806250, 25244493,
JoeJohnson_Salary = [12000000,12744189,13488377,14232567,14976754,16324500,18038573,
LeBronJames Salary = [4621800,5828090,13041250,14410581,15779912,14500000,16022500,1
CarmeloAnthony Salary = [3713640,4694041,13041250,14410581,15779912,17149243,1851857
DwightHoward_Salary = [4493160,4806720,6061274,13758000,15202590,16647180,18091770,1
ChrisBosh Salary = [3348000, 4235220, 12455000, 14410581, 15779912, 14500000, 16022500, 175]
ChrisPaul Salary = [3144240,3380160,3615960,4574189,13520500,14940153,16359805,17779]
KevinDurant_Salary = [0,0,4171200,4484040,4796880,6053663,15506632,16669630,17832627
DerrickRose_Salary = [0,0,0,4822800,5184480,5546160,6993708,16402500,17632688,188628
DwayneWade Salary = [3031920,3841443,13041250,14410581,15779912,14200000,15691000,17]
Salary = np.array([KobeBryant_Salary, JoeJohnson_Salary, LeBronJames_Salary, Carmelo
#Games
KobeBryant G = [80,77,82,82,73,82,58,78,6,35]
JoeJohnson G = [82,57,82,79,76,72,60,72,79,80]
LeBronJames_G = [79,78,75,81,76,79,62,76,77,69]
CarmeloAnthony_G = [80,65,77,66,69,77,55,67,77,40]
DwightHoward_G = [82,82,82,79,82,78,54,76,71,41]
ChrisBosh G = [70,69,67,77,70,77,57,74,79,44]
ChrisPaul G = [78,64,80,78,45,80,60,70,62,82]
KevinDurant_G = [35, 35, 80, 74, 82, 78, 66, 81, 81, 27]
DerrickRose G = [40, 40, 40, 81, 78, 81, 39, 0, 10, 51]
DwayneWade_G = [75,51,51,79,77,76,49,69,54,62]
Games = np.array([KobeBryant G, JoeJohnson G, LeBronJames G, CarmeloAnthony G, Dwigh
#Minutes Played
KobeBryant MP = [3277,3140,3192,2960,2835,2779,2232,3013,177,1207]
JoeJohnson MP = [3340,2359,3343,3124,2886,2554,2127,2642,2575,2791]
LeBronJames MP = [3361,3190,3027,3054,2966,3063,2326,2877,2902,2493]
CarmeloAnthony MP = [2941, 2486, 2806, 2277, 2634, 2751, 1876, 2482, 2982, 1428]
DwightHoward_MP = [3021,3023,3088,2821,2843,2935,2070,2722,2396,1223]
ChrisBosh MP = [2751,2658,2425,2928,2526,2795,2007,2454,2531,1556]
ChrisPaul_MP = [2808,2353,3006,3002,1712,2880,2181,2335,2171,2857]
KevinDurant MP = [1255, 1255, 2768, 2885, 3239, 3038, 2546, 3119, 3122, 913]
DerrickRose MP = [1168,1168,1168,3000,2871,3026,1375,0,311,1530]
DwayneWade MP = [2892,1931,1954,3048,2792,2823,1625,2391,1775,1971]
MinutesPlayed = np.array([KobeBryant_MP, JoeJohnson_MP, LeBronJames_MP, CarmeloAntho
#Field Goals
KobeBryant FG = [978,813,775,800,716,740,574,738,31,266]
JoeJohnson_FG = [632,536,647,620,635,514,423,445,462,446]
LeBronJames FG = [875,772,794,789,768,758,621,765,767,624]
CarmeloAnthony_FG = [756,691,728,535,688,684,441,669,743,358]
DwightHoward FG = [468,526,583,560,510,619,416,470,473,251]
```

ChrisBosh FG = [549, 543, 507, 615, 600, 524, 393, 485, 492, 343]

```
ChrisPaul FG = [407,381,630,631,314,430,425,412,406,568]
KevinDurant FG = [306,306,587,661,794,711,643,731,849,238]
DerrickRose FG = [208,208,208,574,672,711,302,0,58,338]
DwayneWade FG = [699, 472, 439, 854, 719, 692, 416, 569, 415, 509]
#Matrix
FieldGoals = np.array([KobeBryant FG, JoeJohnson FG, LeBronJames FG, CarmeloAnthony
#Field Goal Attempts
KobeBryant FGA = [2173, 1757, 1690, 1712, 1569, 1639, 1336, 1595, 73, 713]
JoeJohnson FGA = [1395, 1139, 1497, 1420, 1386, 1161, 931, 1052, 1018, 1025]
LeBronJames FGA = [1823, 1621, 1642, 1613, 1528, 1485, 1169, 1354, 1353, 1279]
CarmeloAnthony FGA = [1572, 1453, 1481, 1207, 1502, 1503, 1025, 1489, 1643, 806]
DwightHoward FGA = [881,873,974,979,834,1044,726,813,800,423]
ChrisBosh FGA = [1087,1094,1027,1263,1158,1056,807,907,953,745]
ChrisPaul_FGA = [947,871,1291,1255,637,928,890,856,870,1170]
KevinDurant FGA = [647,647,1366,1390,1668,1538,1297,1433,1688,467]
DerrickRose FGA = [436, 436, 436, 1208, 1373, 1597, 695, 0, 164, 835]
DwayneWade FGA = [1413,962,937,1739,1511,1384,837,1093,761,1084]
#Matrix
FieldGoalAttempts = np.array([KobeBryant FGA, JoeJohnson FGA, LeBronJames FGA, Carme
#Points
KobeBryant PTS = [2832,2430,2323,2201,1970,2078,1616,2133,83,782]
JoeJohnson PTS = [1653, 1426, 1779, 1688, 1619, 1312, 1129, 1170, 1245, 1154]
LeBronJames PTS = [2478,2132,2250,2304,2258,2111,1683,2036,2089,1743]
CarmeloAnthony PTS = [2122,1881,1978,1504,1943,1970,1245,1920,2112,966]
DwightHoward PTS = [1292, 1443, 1695, 1624, 1503, 1784, 1113, 1296, 1297, 646]
ChrisBosh PTS = [1572,1561,1496,1746,1678,1438,1025,1232,1281,928]
ChrisPaul PTS = [1258,1104,1684,1781,841,1268,1189,1186,1185,1564]
KevinDurant PTS = [903,903,1624,1871,2472,2161,1850,2280,2593,686]
DerrickRose PTS = [597,597,597,1361,1619,2026,852,0,159,904]
DwayneWade PTS = [2040, 1397, 1254, 2386, 2045, 1941, 1082, 1463, 1028, 1331]
Points = np.array([KobeBryant PTS, JoeJohnson PTS, LeBronJames PTS, CarmeloAnthony E
```

In [2]:

```
# we want to operate in matrix form
Games
```

Out[2]:

```
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 [3]:
Games[0]
Out[3]:
array([80, 77, 82, 82, 73, 82, 58, 78, 6, 35])
In [4]:
Games[3]
Out[4]:
array([80, 65, 77, 66, 69, 77, 55, 67, 77, 40])
In [5]:
# WE WANT particular value
Games[3,0]
Out[5]:
80
In [6]:
Games[3,1]
Out[6]:
65
In [8]:
# printing all together
print(Games[3,0])
print(Games[3,1])
80
65
In [9]:
```

In [9]:

```
# operating in many matrices
Points
```

Out[9]:

```
array([[2832, 2430, 2323, 2201, 1970, 2078, 1616, 2133,
                                                          83,
       [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, 1624, 1871, 2472, 2161, 1850, 2280, 2593,
       [ 903,
                                                               686],
       [ 597,
              597.
                    597, 1361, 1619, 2026, 852,
                                                     0,
                                                        159,
                                                               904],
       [2040, 1397, 1254, 2386, 2045, 1941, 1082, 1463, 1028, 1331]])
```

In [11]:

```
#printing for each variables
#CASE-1
FieldGoals
```

Out[11]:

```
array([[978, 813, 775, 800, 716, 740, 574, 738, 31, 266], [632, 536, 647, 620, 635, 514, 423, 445, 462, 446], [875, 772, 794, 789, 768, 758, 621, 765, 767, 624], [756, 691, 728, 535, 688, 684, 441, 669, 743, 358], [468, 526, 583, 560, 510, 619, 416, 470, 473, 251], [549, 543, 507, 615, 600, 524, 393, 485, 492, 343], [407, 381, 630, 631, 314, 430, 425, 412, 406, 568], [306, 306, 587, 661, 794, 711, 643, 731, 849, 238], [208, 208, 208, 574, 672, 711, 302, 0, 58, 338], [699, 472, 439, 854, 719, 692, 416, 569, 415, 509]])
```

In [12]:

```
#case-2
Salary
```

Out[12]:

```
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, 200685631,
               0,
                         0, 4171200, 4484040,
                                                4796880,
                                                          6053663,
        15506632, 16669630, 17832627, 18995624],
                                  0, 4822800, 5184480,
                                                          5546160,
               0,
                         0,
         6993708, 16402500, 17632688, 18862875],
                  3841443, 13041250, 14410581, 15779912, 14200000,
       [ 3031920,
        15691000, 17182000, 18673000, 15000000]])
```

In [13]:

```
# step 1: we want field goal per game player make.
FieldGoals / Games
```

<ipython-input-13-8ee2c66d5b0a>:2: RuntimeWarning: invalid value encou
ntered in true_divide
 FieldGoals / Games

Out[13]:

```
array([[12.225 , 10.55844156, 9.45121951, 9.75609756, 9.8082191
8,
        9.02439024, 9.89655172, 9.46153846, 5.16666667,
],
      [7.70731707, 9.40350877, 7.8902439, 7.84810127, 8.3552631
6,
        7.13888889, 7.05
                         , 6.18055556, 5.84810127, 5.575
],
      [11.07594937, 9.8974359, 10.58666667, 9.74074074, 10.1052631
6,
        9.59493671, 10.01612903, 10.06578947, 9.96103896, 9.0434782
6],
      [ 9.45
                 , 10.63076923, 9.45454545, 8.10606061, 9.9710144
9,
        8.88311688, 8.01818182,
                               9.98507463, 9.64935065, 8.95
],
      [5.70731707, 6.41463415, 7.1097561, 7.08860759, 6.2195122
        7.93589744, 7.7037037, 6.18421053, 6.66197183, 6.1219512
2],
      [ 7.84285714,
                    7.86956522, 7.56716418, 7.98701299, 8.5714285
7,
                    6.89473684, 6.55405405, 6.2278481, 7.7954545
        6.80519481,
5],
      [ 5.21794872, 5.953125 , 7.875 , 8.08974359,
                                                        6.977777
8,
              , 7.08333333, 5.88571429, 6.5483871 , 6.9268292
        5.375
7],
                               7.3375
      [ 8.74285714, 8.74285714,
                                       , 8.93243243, 9.6829268
3,
        9.11538462, 9.74242424, 9.02469136, 10.48148148, 8.8148148
1],
      [ 5.2
                 , 5.2
                            , 5.2
                                         , 7.08641975, 8.6153846
2,
        8.77777778, 7.74358974,
                                       nan, 5.8 , 6.6274509
8],
      9.32
             , 9.25490196, 8.60784314, 10.81012658, 9.3376623
4,
        9.10526316, 8.48979592, 8.24637681, 7.68518519, 8.2096774
2]])
```

In [14]:

```
# step2:wants to avoid error
import warnings
warnings.filterwarnings("ignore")
FieldGoals / Games
```

Out[14]:

```
array([[12.225
                  , 10.55844156,
                                9.45121951, 9.75609756, 9.8082191
8,
        9.02439024, 9.89655172,
                                9.46153846, 5.16666667,
                                                         7.6
],
      [7.70731707, 9.40350877, 7.8902439, 7.84810127, 8.3552631
6,
        7.13888889, 7.05
                         , 6.18055556, 5.84810127, 5.575
],
      [11.07594937, 9.8974359, 10.58666667, 9.74074074, 10.1052631
6,
        9.59493671, 10.01612903, 10.06578947, 9.96103896, 9.0434782
61,
      [ 9.45
                  , 10.63076923, 9.45454545,
                                             8.10606061, 9.9710144
9,
        8.88311688, 8.01818182,
                                9.98507463,
                                             9.64935065,
                                                         8.95
],
                                            7.08860759, 6.2195122
      [ 5.70731707, 6.41463415, 7.1097561 ,
        7.93589744, 7.7037037, 6.18421053, 6.66197183, 6.1219512
2],
                    7.86956522, 7.56716418, 7.98701299, 8.5714285
      [ 7.84285714,
7,
                    6.89473684, 6.55405405, 6.2278481, 7.7954545
        6.80519481,
5],
      [ 5.21794872,
                    5.953125 , 7.875 , 8.08974359,
                                                         6.977777
8,
        5.375
              , 7.08333333, 5.88571429, 6.5483871,
                                                         6.9268292
7],
      [ 8.74285714,
                    8.74285714,
                                7.3375
                                        , 8.93243243,
                                                         9.6829268
3,
        9.11538462.
                    9.74242424, 9.02469136, 10.48148148,
                                                         8.8148148
1],
                                         , 7.08641975, 8.6153846
      [ 5.2
                    5.2
                              , 5.2
2,
        8.77777778, 7.74358974,
                                             5.8 , 6.6274509
                                       nan,
8],
      [ 9.32
             , 9.25490196,
                                8.60784314, 10.81012658, 9.3376623
4,
        9.10526316, 8.48979592, 8.24637681, 7.68518519, 8.2096774
2]])
```

In [15]:

```
# step3: now wants to nearest digit possible
np.matrix.round(FieldGoals / Games)
```

Out[15]:

```
array([[12., 11.,
                  9., 10., 10., 9., 10.,
                                           9.,
                                                5.,
                                                     8.],
             9.,
                  8., 8., 8.,
                                7., 7.,
                                           6.,
       9.],
                                      8., 10., 10.,
       [ 9., 11.,
                  9.,
                       8., 10.,
                                 9.,
                                                     9.1,
                       7.,
                            6.,
                                      8.,
                                           6.,
       [ 6.,
              6.,
                  7.,
                                 8.,
                                                7.,
                                                     6.],
                  8.,
                       8.,
                            9.,
                                 7.,
                                      7.,
                                           7.,
       [ 8.,
              8.,
                                                6.,
                                                     8.],
                            7.,
       [5.,
                  8.,
                       8.,
                                 5.,
                                      7.,
                                           6.,
                                                7.,
                                                     7.1,
             6.,
             9.,
                  7.,
                       9., 10.,
                                 9., 10.,
                                           9., 10.,
                                                     9.1,
                            9.,
                                 9.,
             5.,
                  5.,
                       7.,
                                      8., nan,
                  9., 11.,
                            9.,
                                 9.,
                                      8.,
       [ 9.,
             9.,
                                           8.,
                                                8.,
                                                     8.]])
```

In [16]:

```
FieldGoalAttempts
```

Out[16]:

```
array([[2173, 1757, 1690, 1712, 1569, 1639, 1336, 1595,
                                                          73,
                                                               713],
       [1395, 1139, 1497, 1420, 1386, 1161, 931, 1052, 1018, 1025],
       [1823, 1621, 1642, 1613, 1528, 1485, 1169, 1354, 1353, 1279],
       [1572, 1453, 1481, 1207, 1502, 1503, 1025, 1489, 1643,
       [ 881, 873, 974, 979,
                                 834, 1044,
                                             726,
                                                   813,
                                                         800,
       [1087, 1094, 1027, 1263, 1158, 1056,
                                                               745],
                                             807,
                                                   907,
                                                         953,
               871, 1291, 1255,
                                637,
                                      928,
       [ 947,
                                             890,
                                                   856,
                                                         870, 1170],
               647, 1366, 1390, 1668, 1538, 1297, 1433, 1688,
       [ 647,
       [ 436,
               436, 436, 1208, 1373, 1597,
                                             695,
                                                     0,
                                                         164,
               962, 937, 1739, 1511, 1384,
                                             837, 1093,
                                                         761, 1084]])
       [1413,
```

In [17]:

```
# step 4: for simplicit
fieldgoalpergame = np.matrix.round(FieldGoals / Games)
print(fieldgoalpergame)
```

```
9. 10. 10.
                           9.10.
                                     9.
                                          5.
[[12. 11.
                                              8.1
        9.
             8.
                 8.
                      8.
                           7.
                                7.
                                     6.
                                              6.1
 [11. 10. 11. 10. 10. 10. 10. 10. 10.
                                              9.]
 [ 9. 11.
             9.
                 8.10.
                           9.
                                8. 10. 10.
                                              9.1
 [ 6.
        6.
             7.
                 7.
                      6.
                           8.
                                8.
                                     6.
                                          7.
                                              6.]
             8.
                 8.
                      9.
                           7.
                                7.
                                     7.
                                              8.]
   8.
        8.
                                          6.
 [
                                7.
             8.
                 8.
                      7.
                           5.
                                     6.
                                          7.
   5.
        6.
                                              7.1
             7.
                 9.10.
                           9.10.
                                     9.10.
   9.
        9.
                                              9.1
 [
                 7.
                           9.
 [ 5.
             5.
                      9.
                                8. nan
                                          6.
        5.
                                              7.]
 [ 9.
        9.
             9.11.
                      9.
                           9.
                                8.
                                     8.
                                          8.
                                              8.]]
```

In [18]:

```
# Q2 WE WANT TO FIND ACCURACY OF PLAYER
# FORMULA = FIELD GOALS/ FIELD GOAL ATTEMPT
FieldGoals / FieldGoalAttempts
```

Out[18]:

```
array([[0.45006903, 0.46272055, 0.45857988, 0.46728972, 0.45634162,
        0.45149481, 0.42964072, 0.46269592, 0.42465753, 0.37307153],
       [0.45304659, 0.47058824, 0.43219773, 0.43661972, 0.45815296,
        0.44272179, 0.45435016, 0.4230038 , 0.45383104, 0.43512195],
       [0.47997806, 0.47624923, 0.48355664, 0.48915065, 0.5026178,
        0.51043771, 0.53122327, 0.56499261, 0.5668884, 0.48788116],
       [0.48091603, 0.47556779, 0.49155976, 0.44324772, 0.45805593,
        0.45508982, 0.4302439, 0.44929483, 0.45222155, 0.44416873],
       [0.53121453, 0.60252005, 0.59856263, 0.57201226, 0.61151079,
        0.59291188, 0.57300275, 0.57810578, 0.59125
                                                     , 0.593380611,
       [0.5050598 , 0.49634369, 0.49367089, 0.48693587, 0.51813472,
        0.49621212, 0.48698885, 0.53472988, 0.51626443, 0.46040268],
       [0.42977825, 0.43742824, 0.4879938 , 0.50278884, 0.49293564,
        0.46336207, 0.47752809, 0.48130841, 0.46666667, 0.48547009],
       [0.47295209, 0.47295209, 0.42972182, 0.47553957, 0.47601918,
       0.46228869, 0.49575944, 0.51011863, 0.50296209, 0.50963597],
       [0.47706422, 0.47706422, 0.47706422, 0.47516556, 0.48943918,
       0.44520977, 0.43453237,
                                       nan, 0.35365854, 0.40479042],
       [0.49469214, 0.49064449, 0.46851654, 0.49108683, 0.47584381,
                  , 0.49701314, 0.52058554, 0.54533509, 0.4695572 ]])
```

In [19]:

```
# STEP 2 ROUND OFF
np.matrix.round(FieldGoals / FieldGoalAttempts)
```

Out[19]:

```
0.,
                                   0.,
                                         0.,
                                               0.,
array([[ 0.,
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                       0.,
                                                     0.,
                                                            0.,
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```

In [20]:

```
# simplicity
accuracy = np.matrix.round(FieldGoals / FieldGoalAttempts)
print(accuracy)
[[ 0.
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In []:

these are the results of accuracy of player in each seasons.