# **ELC Activity – Handwritten Digit Recognition**

Case1: K=2, and split=60:40

### Accuracy=0.7693452380952381

#### & Confusion Matrix=

[[:	1664	0	1	0	0	1	1	0	5	0]	
]	40	1724	25	33	1	0	8	8	64	0]	
[	264	0	1294	14	2	6	15	5	29	3]	
]	267	3	57	1237	1	46	1	6	131	7]	
]	420	3	15	0	1013	0	14	9	116	80]	
[	321	5	11	69	3	899	43	5	182	5]	
]	209	1	7	3	1	6	1419	0	3	0]	
]	70	1	38	21	19	3	0	1438	84	42]	
[	380	26	16	9	9	39	2	0	1148	0]	
]	138	0	2	6	14	5	1	79	296	1089]]	

Case2: K=2, and split=70:30

#### Accuracy= 0.7984126984126985

[[:	1219	0	0	0	0	0	1	0	2	0]
[	38	1265	13	21	0	0	3	4	42	0]
[	175	0	1041	9	0	2	4	3	17	2]
Ι	173	2	31	969	0	23	0	5	73	3]
[	286	4	17	1	774	0	5	5	80	45]
[	209	0	7	49	2	772	19	1	101	3]
[	131	3	5	1	0	5	1095	0	6	0]
[	43	1	19	10	10	1	1	1148	68	30]
[	246	15	10	10	2	15	3	1	922	0]
[	105	1	1	3	8	5	0	57	244	855]]

# Case3: K=2, and split=75:25

Accuracy= 0.9572380952380952

#### & Confusion Matrix=

[[1	041	0	1	0	0	0	0	1	0	0]
]	0	1169	2	0	1	0	0	1	0	0]
[	3	13	990	1	0	0	1	14	1	0]
[	2	5	21	1056	1	3	0	2	5	1]
]	1	11	0	0	983	0	3	0	0	9]
[	1	0	0	44	3	887	11	1	1	1]
[	15	3	1	0	3	4	1007	0	0	0]
1	0	17	7	1	8	0	0	1108	0	4]
[	5	15	5	34	5	32	6	8	853	8]
]	6	4	2	12	37	5	1	35	1	957]]

# Case4: K=2, and split=80:20

# Accuracy= 0.70083333333333333

#### & Confusion Matrix=

[[817	0	0	0	0	0	1	0	3	0]
[ 28	793	8	13	2	0	4	1	43	0]
[303	0	525	5	0	0	2	3	14	1]
[247	3	21	552	0	6	0	5	50	2]
[337	0	0	0	371	0	6	16	49	33]
[225	1	0	24	2	421	15	3	64	2]
[143	0	0	0	1	5	669	0	1	0]
[ 43	0	14	13	0	0	0	761	31	18]
[270	14	0	1	2	6	2	2	519	0]
[113	0	2	2	8	1	0	124	155	459]]

Case5: K=2, and split=90:10

Accuracy= 0.7111904761904762

[[433	0	0	0	0	0	1	0	0	0]	
[ 13	436	6	10	0	0	2	1	7	0]	
[151	0	237	5	0	0	1	0	9	0]	
[119	1	9	259	0	12	0	0	14	2]	
[162	0	3	1	176	0	4	6	17	16]	
[118	0	3	20	0	218	8	1	19	1]	
[ 64	0	0	0	0	1	341	0	1	0]	
[ 28	0	4	4	3	0	0	412	17	6]	
[156	4	4	1	1	3	3	1	219	0]	
[ 48	0	0	0	3	1	0	51	67	256]]	

# Case6: K=2, and split=95:5

# Accuracy= 0.721

#### & Confusion Matrix=

[[:	2031	0	0	1	0	2	3	0	2	1]
[	93	2104		46	0	0	9	7	53	1]
1	445	2	1612	10	1	8	7	4	27	1]
1	434	6	62	1494	0	62	1	17	101	5]
[	867	4	18	2	861	4	13	77	127	80]
1	487	2	13	90	2	1111	15	3	124	5]
[	367	3	6	1	0	4	1659	0	14	0]
[	124	2	65	25	8	3	0	1840	45	63]
[	643	43	21	15	4	67	3	2	1252	0]
[	263	3	4	9	15	14	0	340	303	1177]]

# Case7: K=4, and split=60:40

# Accuracy= 0.8164285714285714

[[	1659	0	0	0	0	0	1	0	12	0]
]	11	1731	20	5	1	0	14	4	117	0]
[	115	0	1387	11	2	1	24	4	84	4]
]	112	2	26	1341	0	30	1	4	232	8]
1	228	0	3	1	1028	0	44	7	211	148]
[	229	1	6	49	0	878	35	4	336	5]
[	102	0	0	0	1	4	1524	0	18	0]
]	49	1	27	7	12	1	0	1443	111	65]
[	71	3	3	4	6	13	4	0	1525	0]
[	87	0	0	8	4	6	1	37	287	1200]]

# Case8: K=4, and split=70:30

# Accuracy= 0.82111111111111111

#### & Confusion Matrix=

[[:	1212	0	0	0	0	0	1	0	8	1]	
]	9	1290	19	10	0	0	8	2	45	3]	
1	114	0	1064	9	0	0	6	2	55	3]	
]	68	2	20	1014	0	24	3	4	139	5]	
1	213	2	4	0	673	0	23	7	187	108]	
1	155	0	6	51	1	710	20	2	212	6]	
[	81	0	1	0	0	2	1139	0	23	0]	
1	38	1	25	6	2	1	1	1124	69	64]	
[	35	2	2	13	1	9	2	1	1159	0]	
[	63	0	0	5	4	4	0	36	206	961]]	

#### Case9: K=4, and split=75:25

# Accuracy= 0.7452380952380953

#### & Confusion Matrix=

[[:	1039	0	0	0	0	0	1	0	2	1]
1	25	1013	12	0	0	0	10	2	110	1]
[	173	0	785	8	0	0	12	6	38	1]
[	158	2	14	758	0	13	0	2	148	1]
1	330	0	0	0	481	0	5	6	104	81]
[	253	0	2	19	2	464	11	0	192	6]
[	165	0	0	0	0	1	859	0	8	0]
1	52	0	13	4	3	0	0	959	69	45]
[	206	0	2	1	1	3	4	1	753	0]
[	109	0	0	2	4	1	0	38	192	714]]

Case10: K=4, and split=80:20

Accuracy= 0.7585714285714286

```
[[816
       0
            0
                0
                    0
                        0
                            1
                                0
                                    4
                                         0]
[ 22 777
            8
                1
                    0
                        0
                            4
                                1
                                   79
                                         0]
[163
       0 645
                9
                    0
                        0
                            4
                                5 27
                                         0]
[111
                        4
                                0 85
                                        4]
       1
          12 669
                    0
                           0
[265
       0
            1
                0 386
                        0
                           11
                                9 85 55]
[156
           0
               11
                    2 433
                           13
                                1 138
                                        3]
       0
[114
                0
                    1
                        3 695
                                        0]
       0
           0
                                0
                                    6
                5
[ 37
       0
           9
                    0
                        0
                            0 764 38 27]
[180
       0
          0
                3
                    0
                        1
                            3
                                1 627
                                        1]
[ 94
        0
           1
                1
                    5
                        0
                            0 41 162 560]]
```

#### Case11: K=4, and split=90:10

#### Accuracy= 0.784047619047619

#### & Confusion Matrix=

[[4	132	0	0	0	0	0	1	0	1	0]
[	8	438	6	0	0	0	4	2	17	0]
]	71	0	305	8	0	0	3	0	16	0]
[	54	0	2	315	0	6	2	0	35	2]
[:	119	1	0	0	205	0	5	0	21	34]
[	94	0	0	10	1	229	7	0	45	2]
[	49	0	0	0	0	0	353	0	5	0]
]	25	0	6	1	1	0	0	410	19	12]
[	86	0	0	1	0	1	1	1	302	0]
1	46	0	0	0	0	1	0	13	62	304]]

#### Case12: K=4, and split=95:5

#### Accuracy= 0.7965238095238095

[[:	2022	0	0	1	0	0	4	0	12	1]
[	38	2129	26	7	0	0	10	3	133	3]
I	245	1	1772	18	1	4	8	3	63	2]
1	199	3	44	1701	1	32	1	6	185	10]
[	638	2	3	2	923	0	15	13	230	227]
I	287	0	3	66	1	1186	23	3	270	13]
[	205	1	0	1	1	3	1805	0	38	0]
[	104	2	44	7	3	3	0	1832	80	100]
I	168	6	6	13	1	30	1	2	1822	1]
1	195	0	1	3	3	6	1	91	293	1535]]

# Case13: K=5, and split=60:40

# Accuracy= 0.8211309523809524

#### & Confusion Matrix=

[[:	1660	0	0	0	0	0	1	0	11	0]
]	5	1738	22	3	1	0	14	3	117	0]
[	113	1	1398	10	1	0	23	5	78	3]
[	103	3	28	1351	0	31	2	3	228	7]
]	183	1	3	0	1023	0	48	8	246	158]
[	206	0	2	58	0	866	43	3	360	5]
[	86	0	0	0	1	5	1546	0	11	0]
]	49	1	30	9	11	3	0	1414	117	82]
[	56	4	5	6	6	9	3	0	1539	1]
[	63	0	0	8	3	5	2	36	253	1260]]

### Case14: K=5, and split=70:30

# Accuracy= 0.8256349206349206

#### & Confusion Matrix=

[[:	1204	0	0	0	0	0	1	0	16	1]
]	7	1288	20	6	0	0	8	3	53	1]
[	97	0	1071	9	0	0	10	4	59	3]
[	57	2	17	1015	0	26	3	4	150	5]
]	190	1	3	0	686	1	18	6	189	123]
[	152	0	3	58	1	686	21	2	236	4]
[	58	0	1	0	0	2	1160	0	25	0]
]	33	1	24	9	2	0	1	1109	80	72]
[	31	1	2	9	0	5	0	0	1175	1]
[	55	0	0	5	2	4	0	29	175	1009]]

Case15: K=5, and split=75:25

Accuracy= 0.7743809523809524

[[:	1035	0	0	0	0	0	1	0	6	1]
]	30	1000	14	0	0	0	9	3	117	0]
[	145	1	814	11	0	0	12	6	33	1]
]	123	1	15	790	0	17	1	2	145	2]
1	280	0	2	0	517	0	9	4	112	83]
[	247	0	1	25	1	450	14	0	206	5]
[	115	0	0	0	0	1	908	0	9	0]
[	42	0	20	5	3	0	0	959	62	54]
[	56	0	2	2	1	1	4	1	904	0]
1	94	0	0	2	3	1	0	31	175	754]]

Case16: K=5, and split=80:20

# Accuracy= 0.7867857142857143

# & Confusion Matrix=

[[817	0	0	0	0	0	0	0	4	0]
[ 22	777	11	0	0	0	3	0	78	1]
[131	0	675	10	0	0	4	4	29	0]
[ 90	1	11	687	0	6	0	0	87	4]
[245	0	0	0	398	1	13	9	91	55]
[150	0	0	18	2	430	12	2	140	3]
[ 75	0	0	0	0	2	733	0	9	0]
[ 30	0	9	8	0	0	0	750	46	37]
[ 59	0	0	4	0	1	2	0	749	1]
[ 85	0	1	2	3	0	0	37	143	593]]

# Case17: K=5, and split=90:10

# Accuracy= 0.8095238095238095

[[4	132	0	0	0	0	0	1	0	1	0]
[	10	434	4	0	0	0	5	2	20	0]
[	62	0	314	5	0	0	5	0	17	0]
]	47	1	2	323	0	7	2	0	33	1]
[1	106	1	1	0	214	0	6		23	34]
[	82	0	0	13	1	229	9	0	52	2]
]	34	0	0	0	0	0	368	0	5	0]
]	23	0	6	1	0	0	0	408	21	15]
[	34	0	0	2	0	2	2	0	352	0]
Γ	28	0	0	0	0	0	0	13	59	32611

# Accuracy= 0.815047619047619

#### & Confusion Matrix=

[[:	2021	1	0	1	0	0	4	0	13	0]
]	27	2135	24	3	0	0	12	7	139	2]
[	201	0	1818	14	1	0	10	3	67	3]
]	162	3	43	1746	0	31	2	11	173	11]
]	536	2	5	0	1003	1	20	13	259	214]
[	257	0	2	90	1	1174	24	3	293	8]
]	128	1	0	2	0	2	1890	0	31	0]
]	88	2	47	12	2	2	0	1836	80	106]
[	101	7	12	18	1	14	4	4	1886	3]
]	141	0	0	7	3	7	1	87	275	1607]]

# Case19: K=6, and split=60:40

# Accuracy= 0.8235119047619047

#### & Confusion Matrix=

[[:	1662	0	0	0	0	0	1	0	9	0]
[	5	1748	19	0	1	0	14	4	112	0]
[	113	1	1401	8	0	0	30	2	73	4]
[	107	3	30	1362	0	23	2	3	220	6]
[	169	0	3	1	1041	0	60	3	245	148]
[	199	0	2	70	0	876	38	2	350	6]
[	90	0	0	0	1	4	1536	0	18	0]
[	52	1	29	11	12	1	0	1416	121	73]
[	45	4	6	4	5	12	3	0	1550	0]
]	62	0	0	8	3	4	2	44	264	1243]]

# Case20: K=6, and split=70:30

# Accuracy= 0.8280952380952381

[[:	1213	0	0	0	0	0	1	0	7	1]
[	9	1293	16	3	1	0	7	3	53	1]
[	94	0	1078	11	0	0	9	4	54	3]
[	60	2	16	1026	0	20	3	3	145	4]
1	184	1	6	0	691	1	18	8	189	119]
[	158	0	3	62	0	690	21	1	223	5]
[	71	0	1	0	0	2	1152	0	20	0]
]	31	1	26	7	2	0	1	1121	75	67]
[	32	2	2	8	0	4	0	1	1174	1]
[	53	0	0	4	2	3	0	36	185	996]]

# 

#### & Confusion Matrix=

[[818	0	0	0	0	0	0	0	3	0]
[ 13	796	9	0	0	0	5	0	69	0]
[125	0	679	11	0	0	3	6	29	0]
[ 71	1	14	705	0	2	0	0	90	3]
[234	0	1	0	398	0	9	7	102	61]
[152			20	1	426	8	2	145	3]
[ 79	0	0	0	0	2	729	0	9	0]
[ 31	0	12		0	1	0	764	40	28]
[ 55	0	0	5	0	1	2	0	752	1]
[ 88	0	1	1	3	0	0	42	146	583]]

Case22: K=6, and split=90:10

# Accuracy= 0.8192857142857143

#### & Confusion Matrix=

[[4	432	0	0	0	0	0	1	0	1	0]
]	6	441	5	1	0	0	5	1	16	0]
]	57	0	319	6	0	0	5	0	16	0]
[	33	1	4	337	0	6	1	1	31	2]
[	95	1	1	0	220	0	5	0	28	35]
]	76	0	0	16	2	233	9	1	49	2]
[	38	0	0	0	0	0	363	0	6	0]
]	25	0	6	1	1	0	0	412	18	11]
]	30	0	0	1	0	1	1	0	359	0]
[	30	0	0	0	0	1	0	15	55	325]]

Case23: K=6, and split=80:20

[[818	0	0	0	0	0	0	0	3	0]
[ 13	796	9	0	0	0	5	0	69	0]
[125	0	679	11	0	0	3	6	29	0]
[ 71	1	14	705	0	2	0	0	90	3]
[234	0	1	0	398	0	9	7	102	61]
[152	0	0	20	1	426	8	2	145	3]
[ 79	0	0	0	0	2	729	0	9	0]
[ 31	0	12	4	0	1	0	764	40	28]
[ 55	0	0	5	0	1	2	0	752	1]
[ 88	0	1	1	3	0	0	42	146	583]]

Case24: K=6, and split=95:5

# Accuracy= 0.8225238095238095

#### & Confusion Matrix=

[[:	2021	1	0	1	0	0	3	0	14	0]
[	21	2147	22	3	0	0	13	9	133	1]
[	173	0	1843	16	0	0	10	3	70	2]
]	146	3	45	1748	0	27	2	9	195	7]
[	471	2	4	0	1052	1	28	17	245	233]
]	257	0	3	77	0	1175	24	3	299	14]
]	114	1	0	1	0	3	1903	0	32	0]
[	86	3	51	11	5	2	0	1848	76	93]
[	79	5	9	19	0	15	3	4	1914	2]
]	134	0	0	9	1	4	1	94	263	1622]]

Case25: K=7, and split=60:40

# Accuracy= 0.8245238095238095

[[:	1659	0	0	0	0	0	1	0	12	0]
]	5	1753	21	0	1	0	13	5	105	0]
[	99	0	1408	11	1	0	26	2	82	3]
[	93	3	25	1381	0	17	5	3	222	7]
[	153	0	3	1	1029	0	55	5	267	157]
[	197	0	1	56	0	846	41	3	392	7]
[	74	0	0	1	1	5	1548	0	20	0]
[	52	1	28	10	9	1	1	1403	114	97]
[	47	3	3	3	5	10	3	0	1555	0]
[	59	0	0	8	4	5	2	41	241	1270]]

#### Case26: K=7, and split=70:30

# Accuracy= 0.828888888888889

#### & Confusion Matrix=

[[:	1210	0	0	0	0	0	1	0	10	1]
]	5	1290	15	4	1	0	9	2	59	1]
]	84	0	1081	11	1	0	10	5	58	3]
[	58	2	17	1020	0	18	3	2	153	6]
]	151	1	4	1	708	1	21	5	191	134]
]	151	0	3	61	0	664	21	1	255	7]
1	65	0	1	0	0	1	1156	0	23	0]
1	29	1	25	9	2	0	2	1115	78	70]
]	31	2	2	7	0	3	0	1	1177	1]
]	50	0	0	5	2	3	0	33	163	1023]]

#### Case27: K=7, and split=75:25

# Accuracy= 0.7856190476190477

#### & Confusion Matrix=

[[:	1035	0	0	0	0	0	1	0	6	1]
[	7	1018	13	1	0	0	8	2	124	0]
[	97	1	845	11	0	0	9	6	53	1]
]	89	0	20	797	0	15	0	2	172	1]
Ι	230	0	3	0	539	0	9	7	126	93]
[	195	0	1	26	0	453	16	1	253	4]
[	91	0	0	0	0	1	925	0	16	0]
[	38	0	19	7	1	0	0	960	73	47]
[	37	0	4	3	1	3	3	1	918	1]
[	89	0	0	1	2	0	0	31	178	759]]

Case28: K=7, and split=80:20

Accuracy= 0.799404761904762

```
[[818
                                            0]
        0
             0
                 0
                      0
                          0
                               0
                                   0
                                       3
   7 796
             9
                               5
                                      75
                                            0]
                 0
                      0
                          0
                                   0
[108
        0 689
               11
                      0
                               3
                                   4
                                       38
                                            0]
                          0
           13 716
                                            4]
[ 61
        1
                      0
                          3
                               0
                                   0
                                       88
[213
                                   7 111
                                           61]
        0
             1
                 0 409
                          0
                             10
[137
                17
                      0 425
                               9
                                   2 164
                                            3]
        0
             0
[ 70
                 0
                          1 737
                                       11
                                            0]
        0
             0
                      0
                                   0
 [ 29
        0
           14
                 7
                      0
                          0
                               0 751
                                      45
                                           34]
 [ 32
                               2
        1
             0
                 7
                      0
                                   0 773
                                            1]
                          0
[ 79
        0
             0
                 1
                      2
                          0
                               0
                                 34 147 601]]
```

Case29: K=7, and split=90:10

# Accuracy= 0.8330952380952381

#### & Confusion Matrix=

[[4	432	0	0	0	0	0	1	0	1	0]
[	3	442	4	1	0	0	5	1	19	0]
[	48	0	330	4	0	0	5	0	16	0]
[	25	1	5	339	0	5	0	1	38	2]
[	85	1	0	0	226	0	7	0	30	36]
[	61	0	0	19	2	233	9	1	61	2]
[	29	0	0	0	0	0	374	0	4	0]
[	19	0	6	0	0	0	0	410	25	14]
[	18	1	0	2	0	2	0	0	369	0]
[	22	0	0	0	0	1	0	12	47	344]]

Case30: K=7, and split=95:5

# Accuracy= 0.8266666666666667

[[:	2022	0	0	0	0	0	3	0	15	0]
[	18	2155	21	5	0	0	14	3	132	1]
[	165	0	1848	15	0	0	13	5	67	4]
[	131	2	44	1764	0	21	2	7	203	8]
[	389	2	7	0	1067	0	41	12	270	265]
[	228	0	3	79	0	1157	29	3	338	15]
[	116	0	0	1	0	6	1914	0	17	0]
[	77	1	51	15	4	2	1	1844	74	106]
[	71	2	7	17	1	11	3	4	1931	3]
[	112	0	0	9	2	3	1	78	265	1658]]

# Case31: K=10, and split=60:40

# Accuracy= 0.8299404761904762

#### & Confusion Matrix=

[[:	1664	0	0	0	0	0	1	0	7	0]
1	1	1754	18	1	1	0	12	2	114	0]
[	98	1	1422	10	0	0	29	4	65	3]
]	101	2	25	1372	0	17	4	3	224	8]
1	114	0	2	0	1045	0	65	3	275	166]
[	205	0	1	53	0	880	37	2	357	8]
]	77	0	0	1	2	6	1545	0	18	0]
1	53	0	25	11	5	1	1	1415	119	86]
[	49	1	4	2	4	11	2	0	1556	0]
]	57	0	0	5	1	3	4	33	237	1290]]

# Case32: K=10, and split=70:30

# Accuracy= 0.832936507936508

#### & Confusion Matrix=

[[:	1210	0	0	0	0	0	1	0	11	0]
[	1	1302	13	3	0	0	8	2	56	1]
[	86	0	1083	10	1	0	10	3	58	2]
[	52	1	19	1036	0	12	2	3	149	5]
[	131	1	6	0	719	0	17	4	208	131]
[	155	0	4	60	0	666	22	2	250	4]
[	76	0	1	0	0	3	1145	0	21	0]
[	31	1	26	6	1	0	2	1117	73	74]
[	25	1	2	9	0	1	0	1	1184	1]
[	43	0	1	4	1	2	0	31	164	1033]]

Case33: K=10, and split=75:25

Accuracy= 0.79733333333333333

[[:	1038	0	0	0	0	0	0	0	5	0]	
[	3	1042	14	1	0	0	7	1	105	0]	
[	94	0	862	8	0	0	9	6	43	1]	
[	68	1	17	820	0	8	2	2	177	1]	
[	192	0	3	0	555	0	11	7	149	90]	
[	171	0	2	27	0	473	17	1	253	5]	
[	82	0	0	0	0	0	936	0	15	0]	
[	31	0	21	6	1	0	0	960	78	48]	
[	33	0	4	4	1	0	4	1	924	0]	
[	75	0	0	2	1	1	0	33	186	762]]	

# Case34: K=10, and split=80:20

# Accuracy= 0.8082142857142857

# & Confusion Matrix=

[[817	0	0	0	0	0	0	0	4	0]
[ 4	811	10	1	0	0	4	0	62	0]
[ 79	0	721	9	0	0	5	2	36	1]
[ 48	1	16	725	0	3	1	0	88	4]
[177	0	0	0	416	0	15	4	129	71]
[124	0	0	27	0	423	12	2	166	3]
[ 61	0	0	0	0	1	744	0	13	0]
[ 28	0	16	5	0	0	0	757	43	31]
[ 29	1	0	5	0	0	2	1	777	1]
[ 66	0	0	2	2	1	0	33	162	598]]

# Case35: K=10, and split=90:10

# Accuracy= 0.8452380952380952

[[4	431	0	0	0	0	0	1	0	2	0]
[	2	443	5	1	0	0	5	1	18	0]
[	32	0	345	4	0	0	3	0	19	0]
[	18	1	5	352	0	5	0	0	33	2]
[	58	1	2	0	240	0	6	0	42	36]
[	56	0	0	18	1	234	12	1	63	3]
[	24	0	0	1	0	0	378	0	4	0]
[	15	0	5	2	0	0	0	408	30	14]
[	14	0	1	3	0	1	0	0	373	0]
[	18	0	0	0	1	1	0	10	50	346]]

# Case36: K=10, and split=95:5

# Accuracy= 0.8346190476190476

[[:	2023	0	0	0	0	0	3	0	14	0]
]	3	2156	24	3	0	1	16	3	143	0]
]	152	0	1865	12	1	0	13	5	65	4]
[	114	1	49	1775	0	18	3	7	205	10]
]	259	0	7	0	1152	0	52	11	289	283]
]	242	0	2	71	0	1136	28	2	358	13]
1	102	1	0	0	0	3	1925	0	23	0]
]	72	0	48	12	2	0	1	1847	92	101]
]	52	1	6	14	2	10	3	5	1956	1]
[	85	0	1	7	2	3	1	76	261	1692]]