Exploration

library(plyr)

Income data is from http://www.psc.isr.umich.edu/dis/census/Features/tract2zip/

```
nyopth <- read.csv("~/cunyMsda2015/nyopth.csv")
load(file = "incomes.data")
incomes$Median <- as.numeric(incomes$Median)
incomes$Mean <- as.numeric(incomes$Mean)
incomes$Pop <- as.numeric(incomes$Pop)</pre>
```

We first look at the top hcpcs codes

```
sort(table(nyopth$hcpcs_code),decreasing = TRUE)
```

```
##
## 92014 92012 92083 92004 92133 92250 92225 92134 92226 92020 66984 76514
                        1186
                                992
                                      921
                                             828
                                                   825
                                                          794
                                                                 793
                                                                       729
                                                                              555
    1467
           1435
                1203
  99213 66821 76519 99204 92136 99214 66982 92235 99212 76512 67028
                                                                            67820
                                                   319
                                                          301
                                                                 272
##
     541
            532
                  451
                         444
                                418
                                      358
                                             333
                                                                       259
                                                                              240
##
  92002 J3590 92285 92286 68761 65855 99203
                                                 66761 92025
                                                              67228
                                                                     67210
                                                                            J2778
     232
##
            206
                  175
                         175
                                162
                                      159
                                             153
                                                    151
                                                          132
                                                                 131
                                                                       125
##
   Q2046 92060 99215 99205 92082 92132 67840
                                                 68840 92081
                                                              99308 99309
                                                                           68810
##
      94
             91
                   85
                          77
                                 66
                                       63
                                              52
                                                     48
                                                           46
                                                                  43
                                                                         40
                                                                               39
   99305 65210 92240 68801 76513 67042 99211 92140 15823
                                                              92100 66170 66711
##
##
      39
             35
                   35
                          34
                                 34
                                       31
                                              30
                                                     28
                                                           27
                                                                  25
                                                                         24
                                                                               24
##
   92071
         67917
                J3490
                       65222
                             67145
                                   83861
                                          65756
                                                 66250
                                                        67041
                                                              67904
                                                                     99306
                                                                            J3300
             23
                          21
                                 21
                                       21
                                              20
                                                     20
                                                           20
                                                                  20
                                                                        20
      24
                   22
                                                                               20
                       65205 65805 68815
                                                 67036
                                                       67810
                                                              67961
##
   66180 99304
                J9035
                                          99307
                                                                     67255
                                                                           67108
##
             19
                    18
                                       16
      19
                          17
                                 17
                                              16
                                                     15
                                                           15
                                                                  15
                                                                         14
  99202 99222 64612 66172 J3301 14060 66762 67113 67800
                                                              67924 67966 J0585
##
##
      13
             13
                    12
                          12
                                 12
                                       11
                                              11
                                                     11
                                                           11
                                                                  11
                                                                         11
                                                                               11
##
  15260 67040 68720 95060 67105 67221 67515 99223 J3396
                                                              31231 65757
      10
             10
                    10
                          10
                                  9
                                        9
                                               9
                                                      9
                                                            9
                                                                   7
         67900 68440 99221 99232 0192T 15732 65430 65772 67950 68200
##
   67700
                                                                           76510
##
              7
                     7
                           7
                                  7
                                        6
                                               6
                                                      6
                                                            6
                                                                   6
                                                                          6
                                                                                6
       7
##
   76516 92260 92283 95930 J7312 J9190 11440 14061 31200
                                                              36415 65875 66710
##
              6
                     6
                           6
                                  6
                                        6
                                               5
                                                      5
                                                            5
                                                                   5
   67031 67875 69210 76511 15004 31575 65755 65860 66225 67801 67882 68530
##
##
                     5
                           5
                                  4
                                        4
                                               4
                                                      4
                                                            4
                                                                   4
                                                                                4
       5
              5
##
   88305 92275 99201 99283 30130 65400 67825 67908 67938
                                                              67973
                                                                     68326 92287
                                        3
##
                           4
                                  3
                                               3
                                                      3
                                                            3
                                                                   3
                                                                          3
                                                                                3
##
   99284 G0436 11441 11900 15845 31237
                                          65420
                                                 65435
                                                       65800
                                                              65815
                                                                     65870
                                                                            66825
##
              3
                     2
                           2
                                  2
                                        2
                                               2
                                                      2
                                                            2
                                                                   2
       3
   66986 67043 67218 67500 67715 67805 67903 67911 68325
                                                              68700 68760 85025
##
              2
                     2
                           2
                                  2
                                        2
                                               2
                                                      2
                                                            2
                                                                   2
   88300 88304 92557 93880 99326 99406 J1100 10040 11901 14040 15576 15770
##
##
              2
                     2
                           2
                                  2
                                        2
                                               2
  21015 30300 30930 31239 65450 65710 65778 65780 65850 65865 66020 66030
##
       1
                     1
                           1
                                        1
                                               1
                                  1
                                                      1
                                                            1
                                                                   1
```

```
1
                    1
                          1
                                1
                                      1
                                             1
                                                   1
                                                          1
                                                                1
       1
## 67225 67311 67331 67332 67400 67412 67915 67916 67923 67971 67974 68040
                    1
                          1
                                       1
                                                                1
                                1
                                             1
                                                   1
                                                          1
## 68110 68320 68362 68525 80048 80053 81001 81003 85651 87809 88108 88313
                                             1
             1
                    1
                          1
                                1
                                       1
                                                   1
                                                          1
                                                                1
## 92018 92230 92265 92284 92313 92499 92540 92543 92546 92548 92567 92570
       1
             1
                    1
                          1
                                1
                                       1
                                             1
                                                   1
                                                          1
                                                                1
                                                                      1
## 92587 93000 99231 99233 99234 99310 99325 99327 99335 G0268 J0588 J1040
       1
             1
                   1
                          1
                                1
                                       1
                                             1
                                                   1
                                                          1
                                                                1
## J2503
##
       1
nyopth.92014 <- nyopth[nyopth$hcpcs_code==92014,]</pre>
nyopth.92014.city <- ddply(nyopth.92014,~nppes_provider_city,summarise,mean=mean(average_medicare_payme.
sorted.city <- nyopth.92014.city[order(-nyopth.92014.city$mean),]</pre>
sorted.city
##
          nppes_provider_city
## 131
                 OLD WESTBURY 109.52900
## 114
                    MT. VERNON 108.08800
## 147 PORT JEFFERSON STATION 107.34500
## 39
                  EASTCHESTER 106.90300
## 140
                   PEARL RIVER 105.57850
## 101
                   LONG BEACH 104.78055
## 129
              OAKLAND GARDENS 104.61700
## 95
                      LAWRENCE 104.49700
## 67
                   GREAT NECK 103.03014
## 91
                  KEW GARDENS 102.99800
## 55
              FRANKLIN SQUARE 102.97800
## 96
                    LEVITTOWN 102.86480
## 192
                       WANTAGH 102.36827
## 183
                     TARRYTOWN 102.34267
## 144
                PLEASANTVILLE 102.30900
## 188
                      VALHALLA 102.04000
## 205
               WILLISTON PARK 101.96800
## 108
                       MERRICK 101.90600
## 180
                     SUNNYSIDE 101.52600
## 52
                  FLORAL PARK 101.30327
## 82
        HUNTINGTON STATION LI 101.17100
## 203
                   WHITESTONE 101.16020
## 49
                  FARMINGDALE 100.76700
## 208
                      WOODMERE 100.66900
```

66500 66625 66680 66682 66700 66820 66850 66985 66990 67039 67141 67208

NY 100.41110

ROCKAWAY PARK 100.40900

SOUTHAMPTON 100.35210

MOUNT VERNON 100.08689

EAST PATCHOGUE 99.87757

FOREST HILLS

MINEOLA 100.33540

COMMACK 100.22183

HOLBROOK 100.15905

LYNBROOK 99.99205

99.88097

128

160

174

110

29

75

112

102

54

41

## 149	PORT WASHINGTON	99.60785
## 145	POMONA	99.58952
## 135	ORANGEBURG	99.55790
## 169	SHIRLEY	99.50370
## 106	MASSAPEQUA	99.46805
## 105	MANHASSET	99.46383
## 62	GLENDALE	99.46040
## 63	GLEN OAKS	99.37010
## 16	BRENTWOOD	99.33218
## 3	AMITYVILLE	99.31470
## 175	SOUTHOLD	99.26470
## 74	HICKSVILLE	99.21540
## 199	WEST HEMPSTEAD	99.06290
## 146	PORT JEFFERSON	99.00133
## 12	BETHPAGE	98.97771
## 117	NEW CITY	98.93753
## 137	OSSINING	98.92990
## 73	HEWLETT	98.76460
## 154	QUEENS VILLAGE	98.65480
## 207	WOODBURY	
## 181	SYOSSET	98.41230
## 59	GARNERVILLE	98.38668
## 163	RYE	98.26377
## 211	YORKTOWN HEIGHTS	98.11073
## 120	NEW ROCHELLE	98.03819
## 119	NEW HYDE PARK	98.00197
## 42	EAST SETAUKET	97.99532
## 10	BAY SHORE	97.89893
## 202	WHITE PLAINS	97.89175
## 7	BABYLON	97.78003
## 15	BOHEMIA	97.64450
## 58	GARDEN CITY	
## 80	HUNTINGTON	
## 176	SOUTH RICHMOND HILL	97.58213
## 194	WARWICK	97.52440
## 177	STATEN ISLAND	97.47196
## 157	RIDGEWOOD	97.44850
## 72	HEMPSTEAD	97.28178
## 161	ROCKVILLE CENTRE	97.21103
## 19	BRONXVILLE	97.17673
## 158	RIVERHEAD	97.15970
## 5	ASTORIA	96.85270
## 71	HAWTHORNE	96.79543
## 210	YONKERS	96.78579
## 179	SUFFERN	96.75480
## 200	WEST ISLIP	96.68813
## 35	CROTON ON HUDSON	96.56530
## 111	MOUNT KISCO	96.43089
## 166	SCARSDALE	96.39986
## 8	BARDONIA	96.34180
## 173	SOMERS	96.23430
## 184	THORNWOOD	
## 40	EAST MEADOW	
## 20	BROOKLYN	
0	D1000112111	30.30,10

## 190	VALLEY STREAM	95.90804
## 61	GLEN COVE	95.67205
## 198	WESTBURY	95.66635
## 113	MT KISCO	95.19360
## 86	JAMAICA	95.15192
## 53	FLUSHING	95.11463
## 81	HUNTINGTON STATION	95.05230
## 85	JACKSON HEIGHTS	94.99257
## 70	HARTSDALE	94.86370
## 171	SMITHTOWN	94.46075
## 122	NEW YORK	94.41583
## 139	PATCHOGUE	94.09460
## 189	VALLEY COTTAGE	94.05050
## 152	PURCHASE	94.01740
## 78	HOWARD BEACH	
## 97	LIBERTY	
## 178	STONY BROOK	
## 98	LITTLE NECK	
## 14	BKLYN	
## 116	NEWBURGH	
## 142	PLAINVIEW	
## 69	HARRISON	
## 18	BRONX	
## 79	HUDSON	
## 50	FAR ROCKAWAY	
## 209	WOODSIDE	91.41545
## 44	ELMHURST	91.14750
## 155	REGO PARK	90.36835
## 109	MIDDLETOWN	90.00192
## 25 ## 123	CARMEL NEW YORK CITY	89.79670 89.68960
## 123 ## 87	JAMESTOWN	89.61350
## 156	RICHMOND HILL	89.50050
## 93	LAKE KATRINE	88.99440
## 11	BAYSIDE	
## 66	GOSHEN	
## 26	CEDARHURST	88.34320
## 32	CORNWALL	88.16390
## 51	FISHKILL	87.59866
## 22	CAMBRIA HEIGHTS	
## 56	FREEPORT	
## 57	FRESH MEADOWS	
## 92	KINGSTON	
## 148	PORT JERVIS	84.75900
## 206	WILTON	84.60040
## 103	MAHOPAC	84.32920
## 151	POUGHKEEPSIE	83.79224
## 191	VESTAL	82.91475
## 170	SLINGERLANDS	82.88843
## 141	PITTSFORD	82.65767
## 133	ONEIDA	82.51940
## 121	NEW WINDSOR	82.24550
## 118	NEW HARTFORD	81.42813
## 21	BUFFALO	81.03017

## 27	CHEEKTOWAGA	80.70147
## 168	SHERRILL	80.66000
## 94	LATHAM	80.55882
## 164	SARANAC LAKE	80.54510
## 83	IRVING	80.48840
## 24	CANANDAIGUA	80.41963
## 48	FAIRPORT	80.40240
## 197	WELLSVILLE	80.22800
## 4	AMSTERDAM	80.15270
## 76	HORNELL	79.91460
## 99	LIVERPOOL	79.81850
## 60	GENEVA	79.45665
## 1	ALBANY	
## 193	WARSAW	
## 204	WILLIAMSVILLE	79.11666
## 33	CORTLAND	
## 138	OSWEGO	
## 187	UTICA GDDINGG	
## 165	SARATOGA SPRINGS	
## 132	OLEAN	
## 77 ## 36	HORSEHEADS DOBBS FERRY	
	DUBBS FERRY WEBSTER	
## 196 ## 185	TONAWANDA	77.91820 77.87067
## 185 ## 186	TROY	
## 100 ## 2	AMHERST	
## 45	ELMIRA	77.68440
## 45	EAST AMHERST	77.62320
## 17	BROCKPORT	77.56455
## 23	CAMILLUS	77.52880
## 23 ## 68	HAMBURG	77.38630
## 13	BINGHAMTON	
## 126	NORWICH	77.12120
## 37	DUNKIRK	
## 172	SNYDER	
## 31	CORNING	
## 167	SCHENECTADY	
## 115	NEWARK	76.43870
## 153	QUEENSBURY	
## 125	NORTH SYRACUSE	
## 65	GLOVERSVILLE	
## 28	CLIFTON PARK	
## 130	OGDENSBURG	
## 182	SYRACUSE	
## 136	ORCHARD PARK	
## 88	JOHNSON CITY	
## 201	WEST SENECA	75.66190
## 104	MALONE	
## 162	ROME	
## 46	ENDICOTT	
## 195	WATERTOWN	
## 47	ENDWELL	
## 100	LOCKPORT	
## 89	JOHNSTOWN	

```
## 107
                       MEDINA 73.97180
## 84
                       ITHACA 73.88875
## 64
                  GLENS FALLS 73.56465
## 6
                       AUBURN 73.21035
## 9
                      BATAVIA 73.06230
                      ONEONTA 72.72670
## 134
## 127
                  N TONAWANDA 72.64010
                  PLATTSBURGH 71.42225
## 143
## 159
                    ROCHESTER 71.35616
## 43
                EAST SYRACUSE 71.17438
## 150
                      POTSDAM 67.71837
## 90
                      KENMORE 67.27373
## 30
                  COOPERSTOWN 62.82547
## 34
              CORTLANDT MANOR 51.94900
## 124
                NIAGARA FALLS 50.64850
nyoprh.corezip <- nyopth.92014
func <- function(x){</pre>
  substr(x,1,5)
}
nyoprh.corezip$nppes_provider_zip <- lapply(nyoprh.corezip$nppes_provider_zip,FUN = func)
nyoprh.corezip$nppes_provider_zip <- as.numeric(nyoprh.corezip$nppes_provider_zip)</pre>
nyopth.92014.zip <- ddply(nyoprh.corezip,~nppes_provider_zip,summarise,mean=mean(average_medicare_payme
sorted.zip <- nyopth.92014.zip[order(-nyopth.92014.zip$mean),]</pre>
sorted.zip.income <- merge(sorted.zip,incomes,by.x = "nppes_provider_zip",by.y = "Zip")</pre>
sorted.zip.income <- sorted.zip.income[order(-sorted.zip.income$mean),]</pre>
sorted.zip.income
```

```
nppes_provider_zip
##
                              mean Median Mean
                                                 Pop
## 94
                   11024 110.49000
                                      676
                                          2287 14036
## 166
                   11568 109.52900
                                    1240
                                          3291 9893
## 2
                   10007 107.80000
                                      953 2549
                                                8853
## 189
                   11776 107.34500 21810 23359
## 20
                   10034 107.11700
                                    6401 7264 9450
## 73
                   10709 106.90300 22884 1693 14550
## 152
                   11434 106.68700 14158 14090 11780
## 93
                   11023 106.01800 22706 1794 14391
## 85
                   10965 105.57850
                                     150 1407 2109
## 30
                   10305 105.34500 17133 20057 9274
## 38
                   10462 105.08300 11193 9743 13459
## 66
                   10603 104.79500 21968
                                           623 2463
## 163
                   11561 104.78055 22077
                                            400 9839
## 135
                   11364 104.61700 19063 20491 8145
## 162
                   11559 104.49700
                                   454 1978 14102
## 117
                   11220 104.16600
                                   5929 9146 14753
## 147
                   11418 104.12800 16488 17445 9172
## 106
                   11205 103.95300
                                   9323 13271 8945
## 119
                   11224 103.72300
                                    4875 6525 11406
## 146
                   11415 102.99800 16033 18614 4003
## 91
                   11010 102.97800 21809 23214
                                                5571
## 186
                   11756 102.86480 22609
                                            300 10592
## 52
                   10550 102.62023
                                   9265 11994 9481
                   11793 102.36827
                                      232 1266 8195
## 194
```

##	61	10591	102.34267	22202	1008	4758
##	56		102.30900			
##	70	10704	102.29700	18382	19803	7654
##	92	11021	102.28372	9	1960	3298
##	122		102.22264		16272	14063
##	18		102.07000			12515
##	63	10595	102.04000			13760
##	4	10010	102.03260	22738	1712	6701
##	170		101.96800	359		256
##	165		101.90600			
##	105		101.80697			
##	101		101.52600			
##	126		101.41412			11349
##	89		101.30327		811	6489
##	36		101.25200		3102	
##	130		101.16020			
##	125		100.90667			
##	102		100.84400			10100
##	182		100.76700		298	8161
##	171		100.66900			
##	173		100.40900			
	71		100.40010			
##	202		100.35210			
##	153		100.33540			
##	28		100.30782			9630
	116		100.29801			14387
##	180		100.22183		1391	7370
	183		100.15905			
	110		100.14028			14361
	109		100.08200			
	164	11563		22331		5365
	195		99.94540	17523		
	141	11375				
	32	10312				
	17	10030				6289
##	113	11215				12502
##		11050				7118
	86		99.58952			
	84		99.55790		1667	
	201		99.50370			
	187		99.46805			
	95		99.46383			
	90		99.37010			
	118		99.36509			
	179		99.33218			
	174		99.31470			
	24		99.28607			
	203		99.26470			
	198		99.21540			9793
	128		99.14068			
	159		99.06290			5412
	150		99.01900			
	190		99.00133			
##	177	11/14	98.97771	ZZ338	591	ნ∠ნგ

	83	10956	98.93753	520		
##		10562		22025	538	
##	123	11230			16521	
##		10314	98.76570		22594	
##	161	11557		486	2005	
	68	10605	98.72633	495		3227
##	112	11214				13969
##	22	10037			10738	3087
##	197	11797		893		14677
##	193	11791		859		5851
##	96	11040		23013		
	78	10923			23122	
##	149	11428	98.29060		21920	
##	58	10580	98.26377	1055	2626	
##	69	10701	98.22792		12682	
	76	10804	98.14550	1037		2002
##	143	11385	98.11913		13461	
##	185	11746	98.11165	214	1503	
##		10598		333		7305
	75	10801			21045	
##	181	11733		728	1989	
##	176	11706			22353	
	97	11042		939		11638
##	175	11702	97.78003	22836		
##	131	11358	97.77450		21014	9278
##	178	11716	97.64450	22859	536	227
##	156	11530		756		
##	184	11743	97.58596	631		10262
##	188	11772			20127	
##	88	10990	97.52440	22623	551	3951
##	27	10128	97.48466	220		12513
##	124	11234	97.46271		20433	14104
##	158	11550	97.28178	16606	18367	
##		11102	97.28017		15156	9018
##	21	10035	97.27820	1562	3660	7815
##	167	11570	97.21103	444	1847	6695
	72	10708	97.17673	760	2338	4727
	200	11901	97.15970		19631	
##		10601	97.01971		20825	
	13	10024	96.96977	418		12698
	127	11239	96.94470		3141	
##		10028	96.84706	228		10086
##		10532	96.79543	22598		12462
	67	10604	96.79083	22263	1587	381
	77	10901	96.75480	22237		
##		10304	96.70977		17053	9191
	196	11795	96.68813	23073		6620
##		10520	96.56530	22828	1334	1168
	107	11206	96.42500	2025		13332
##		10583	96.39986	1140	2569	9564
	82	10954	96.34180	22711	537	4941
##		10463	96.29866	14463		
	129	11355	96.29516	6798		13686
##	91	10549	96.27622	306	2048	2556

##	60	10589	96.23430	22902	1331	13660
##	62	10594	96.18890		1749	11527
##	160	11554	96.15790	22308	23457	9377
##	34	10451	96.09665	1529	2794	9405
##	168	11581	95.90804	22713	358	4286
##	5	10011	95.80201	22668	2080	10879
##	100	11103	95.79796	14549	17338	10705
##	108	11209				13347
##	14	10025	95.70117	18877	847	14967
##	157	11542	95.67205	21228	196	6661
##	19	10032	95.67190	2754	4668	12046
##	169	11590	95.66635	22344	107	10358
##	35	10457	95.66360	1860	3246	13269
##	1	10003	95.24643	22501	1755	11899
##	42	10469				
##	138	11372			13869	13444
##	10	10021	94.91878	499	2327	10619
##	103	11201	94.89551	22657	1786	11204
##	48	10530	94.86370	225	1637	1546
##	3	10009	94.61827	16293	20643	12285
##	37	10461	94.47499	12112	13579	11200
##	191	11787	94.46075			8638
##	11	10022	94.41072	22704	2056	6418
##	87	10989	94.05050	22144	284	14806
##	57	10577	94.01740	1229	3462	8621
##	145	11414	93.97055	20148	21709	6934
##	114	11216	93.85380	6069	10178	12076
##	23	10038	93.71360	16015	22496	2470
##	136	11365	93.69050	17813	19507	9391
##	111	11213	93.62630	4931	7148	13061
##	25	10065	93.57888	341	2296	7929
##	229	12754	93.45150	4660	11731	13163
##	134	11362	93.15847	20797	22528	3296
##	7	10016	93.01982	22897	1852	11464
##	151	11432				
##	74	10710	92.54217	21536	22949	6121
##	225	12550	92.51147	15795	18091	11737
##	199	11803	92.32028	574	1710	6818
##	47		92.19690			
##	80	10940	92.18360	16732	18280	10396
##	224		91.96920			
##	8		91.94580			
##	172		91.86633			
##	121	11228	91.77400	15738	19629	9933
##	16		91.71381			
##	148	11419	91.42398	13164	14386	10601
##	142	11377	91.41545	13313	14694	14451
##	26		91.27981		2271	
##	43		91.23967			
##	139	11373	91.14750	10174	12908	15168
##	140		90.36835			
##	53	10552	90.35460	19523	22687	4185
##	132	11360	90.13443	20478	22818	3619
##	44	10512	89.79670	22796	676	5582

	306	14701	89.61350			
##	137	11366	89.44831		22972	1767
##	31	10306	89.36590		22717	
	81	10941	89.27470		21003	
	221	12449	88.99440			
##	79	10924	88.53097		23287	
##	154	11516	88.34320	22715		13375
##	12	10023	88.26366	348		12470
##	222	12518	88.16390		23004	
##	6	10013	88.12338	19942		5849
##	133	11361	87.95135		21795	
##	223	12524	87.59866		20637	
	144	11411	87.40237		20858	
##	250	13224	87.07300			
##	228	12603	87.01037			9914
##	155	11520	86.97343		22004	
##	192	11790	86.81050	345		3339
##	115	11217	86.51440		248	8944
##	9	10019	86.04467	22050		9721
	220	12401	85.59612		16026	8861
##	120	11225	85.48155	7441		
##	303	14624	85.13420	18208	18852	9489
	41	10467	85.06552	5079		14863
	230	12771	84.75900		16981	1793
	233	12831	84.60040		20802	
	50	10541	84.32920	22822	936	6381
	40	10466	83.75440		13239	
	264	13850	82.91475		21300	4849
	209	12159	82.88843	21929	72	13580
	294	14534	82.65767	22732		7455
	253	13421	82.51940		13464	1655
	226	12553	82.24550		21446	4951
	211	12203	82.11479		16912	8526
	285	14225	81.70357		10759	8809
	304	14625	81.55350	20063		584
	242	13088	81.44947		14413	4903
	252	13413	81.42813	17503		2687
	227	12601	81.37865		14729	
	282	14222	81.06267	2790	7989	580
	255	13461	80.66000		17070	7934
	298	14613	80.56960		4015	2133
	208	12110	80.55882		22611	4408
	237	12983	80.54510		13482	
	270	14081	80.48840		15620	7667
	290	14424	80.41963		18044	5865
	291	14450	80.40240		22968	
	214	12206	80.40098	2705	4134	2775
	312	14895	80.22800	6895	8520	72
	204	12010	80.15270		11127	6255
	309	14843	79.91460	6986	8457	1595
	286	14226	79.74177		19393	7310
	277	14203	79.72200		4103	881
	279	14217	79.64290		13455	5863
##	276	14201	79.60480	1302	2913	1670

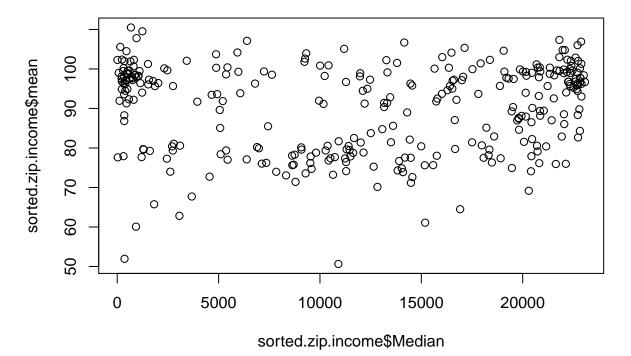
	216	12304	79.58635		11336	
##	213	12205				
##	292	14456	79.45665	11463	14513	4362
##	278	14209	79.37533	5371	13315	14166
##	295	14569	79.36254	10282	10803	13017
##	246	13203	79.35395	2742	4719	2390
##	247	13210	79.27398	1609	3707	6795
	281	14221	79.11666			
	104	11203				
	240	13045				7185
	244		78.76690			
	297		78.40958			
	256	13502				
	234	12866				
	307		78.06160			4342
##	310	14845	78.03280		18081	
##	46	10522	77.91845	307	1623	323
##	296	14580	77.91820	20431	21936	10514
##	275	14150	77.87067	11506	12466	10710
##	210	12180	77.84478	9541	12802	11751
##	218	12308	77.68690	10735	12230	1713
##	313	14901	77.68440	1202	2522	848
##	268	14051	77.62320		1446	
	289	14420	77.56455		15654	
	239	13031	77.52880		19865	
	212	12204	77.51511		19835	
	280	14220	77.39160		10952	6405
	269	14075	77.38630		19581	
	265	13903	77.35477		15977	3923
	301	14620	77.28091		3667	3759
	262	13815		6387		1895
	267	14048	77.03240		6662	2677
##	308	14830	76.82363	10423	14525	4036
##	215	12208	76.70437		16983	4632
##	293	14513	76.43870	11287	10754	2109
##	232	12804	76.31825	18481	19972	5610
##	206	12078	76.23405	7353	8839	5497
##	287	14228	76.20623	9524	12213	2851
##	205	12065	76.15490	20818	22564	9651
##	258	13669	76.03750	7132	8229	3331
##	219	12309	75.98927	22129	301	6986
##	274	14127	75.94365	21634		7012
##	261	13790	75.77365	8702	9494	3997
##	284	14224	75.66190		16694	10041
##	236	12953	75.63870		11797	2787
	248	13212	75.62490		16019	4661
	254	13440	75.26990	12647		10622
	243	13090	74.92560		20444	7732
##	260	13760	74.84812	14037	15701	10609
##	257	13601	74.70593	9587	10986	9297
	271	14094	74.32037	13831	14779	11560
	207	12095	74.14300	11291		1325
	300	14618	74.11095	20409	178	4917
##	217	12305	73.99775	2617	3422	12691

```
## 272
                      14103
                             73.97180
                                         7843 10153
                                                        725
## 311
                      14850
                             73.88875
                                        14094 17093 12816
   231
                      12801
                             73.56465
                                          9291 10800
                                                       2028
   238
                      13021
                             73.21035
                                        10645 12827
                                                       9904
##
##
   266
                      14020
                             73.06230
                                         8328 12006
                                                       5353
  263
                      13820
                             72.72670
                                          4554
                                                7177
                                                       3435
##
  273
                      14120
                             72.64010
                                        14558 15416 10452
## 235
                                          8794
                                                9693
                      12901
                             71.42225
                                                       6643
##
   241
                      13057
                             71.17438
                                        14487 16023
                                                       2280
   299
                                        12835 12068
##
                      14616
                             70.14335
                                                       7018
##
   249
                      13215
                             69.16293
                                        20301 22444
                                                       1937
   259
                      13676
                             67.71837
                                          3677
                                                6628
                                                       2918
##
                      14621
                             65.74954
                                          1820
                                                3051
##
   302
                                                       9066
   305
                      14626
                             64.50155
                                        16915 18405
##
                                                       7211
##
   251
                      13326
                             62.82547
                                          3066
                                                5272
                                                       8499
##
   283
                      14223
                             61.08915
                                        15188 15799
                                                       5557
   245
                      13202
                             60.08933
                                           926
                                                2460 11896
##
## 55
                      10567
                             51.94900
                                           360
                                                1506
                                                       3753
## 288
                      14304
                             50.64850
                                        10906 11354
                                                       7744
```

summary(incomes)

```
Zip
                          Median
                                            Mean
                                                              Pop
##
    Min.
           : 1001
                                       Min.
                     Min.
                                   1
    1st Qu.:27301
                      1st Qu.: 6179
                                       1st Qu.: 6652
##
                                                         1st Qu.: 3494
                     Median :10874
##
    Median :49875
                                       Median :11576
                                                        Median: 7532
    Mean
            :49875
                     Mean
                             :11214
                                       Mean
                                               :11748
                                                        Mean
                                                                : 7572
    3rd Qu.:72134
                                                         3rd Qu.:11683
##
                      3rd Qu.:16240
                                       3rd Qu.:16900
    Max.
            :99929
                     Max.
                             :23073
                                               :23567
                                       Max.
                                                        Max.
                                                                :15172
```

plot(sorted.zip.income\$mean~sorted.zip.income\$Median)



cor(sorted.zip.income\$mean,sorted.zip.income\$Median)

[1] 0.0457017

I thought there would be a correlation between the mean average medicare payment amount and the median income, but seems like there isn't. However, a further look at this income data makes it look like it isnt reliable