y
| Poverty |
| Infant Mort |
| White |
| Crime |
| Doctors |

x
| const |
| Infant Mort |
| White |
| Crime |
| Doctors |

y   Poverty

AboveMedian
| const |
| Infant Mort |
| White |
| Crime |
| Doctors |

BelowMedian
| Crime |
| Doctors |
| Traf Deaths |
| University |
| Unemployed |
| Income |

```
          Poverty   const  Infant Mort    White       Crime     Doctors  \
count   50.000000    50.0    50.000000  50.00000   50.000000   50.000000
mean    12.732000     1.0     6.830000  81.96200  407.480000  260.276000
std      2.939002     0.0     1.338786  11.97458  183.633868   64.363415
min      7.600000     1.0     4.700000  29.70000  118.000000  168.800000
25%     10.450000     1.0     5.725000  76.15000  278.250000  218.425000
50%     12.400000     1.0     6.850000  84.55000  345.500000  249.050000
75%     14.700000     1.0     7.750000  89.85000  520.000000  274.800000
max     21.200000     1.0    10.600000  96.40000  788.000000  469.000000

         Traf Deaths  University  Unemployed        Income    Population
count       50.00000   50.000000   50.000000     50.000000  5.000000e+01
mean         1.40440   26.940000    5.270000  51985.100000  6.016154e+06
std          0.38654    4.761152    1.253933   8592.657934  6.663772e+06
min          0.76000   17.100000    3.000000  37790.000000  5.232260e+05
25%          1.14000   24.025000    4.400000  46161.250000  1.779632e+06
50%          1.37500   26.200000    5.300000  50173.000000  4.313980e+06
75%          1.62000   29.825000    6.275000  56903.000000  6.490796e+06
max          2.45000   38.100000    8.400000  70545.000000  3.618591e+07
```
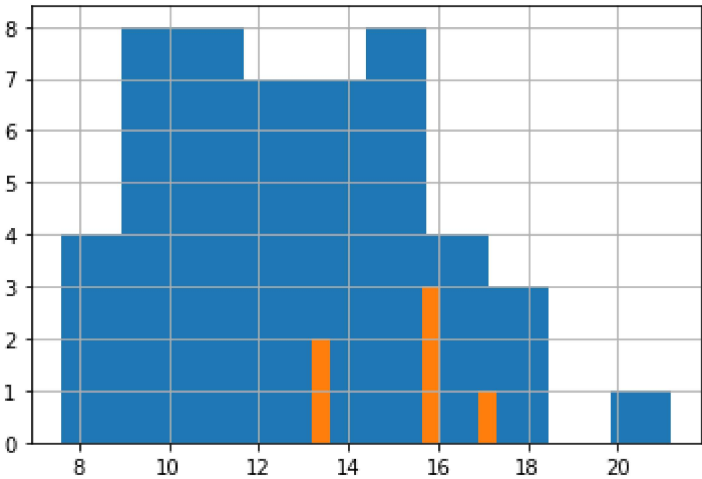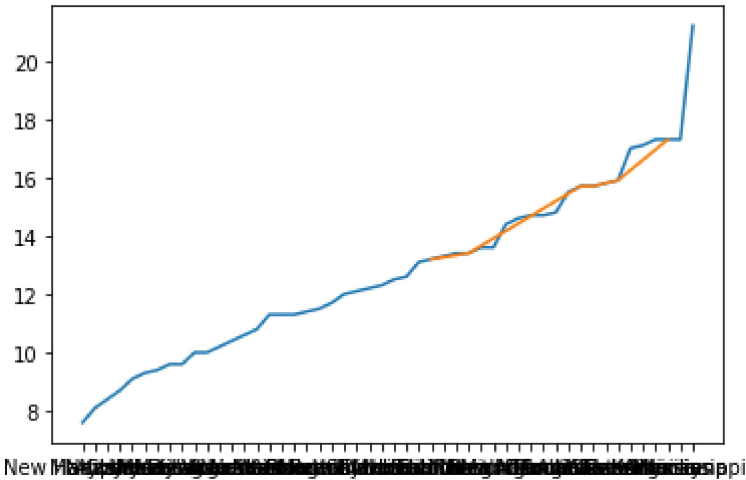
```
           Poverty    const  Infant Mort       White        Crime      Doctors   \
count     6.000000      6.0     6.000000    6.000000     6.000000     6.000000
mean     15.200000      1.0     8.100000   77.233333   582.166667   219.800000
std       1.589969      0.0     0.663325    6.197634   138.372565    28.253354
min      13.200000      1.0     7.300000   68.700000   448.000000   173.500000
25%      13.975000      1.0     7.550000   72.775000   501.250000   207.100000
50%      15.700000      1.0     8.200000   78.950000   517.000000   224.000000
75%      15.850000      1.0     8.475000   80.550000   674.500000   241.950000
max      17.300000      1.0     9.000000   85.000000   788.000000   247.900000

        Traf Deaths  University  Unemployed        Income    Population
count      6.000000    6.000000    6.000000      6.000000  6.000000e+00
mean       1.738333   22.916667    5.516667  43928.833333  6.611554e+06
std        0.256859    2.512701    1.105290   3252.834912  5.799809e+06
min        1.430000   18.800000    3.800000  38815.000000  2.841595e+06
25%        1.565000   22.050000    5.025000  42705.000000  3.810834e+06
50%        1.695000   22.950000    5.600000  43723.500000  4.525561e+06
75%        1.922500   24.675000    6.175000  46306.500000  5.587828e+06
max        2.090000   25.800000    6.900000  47778.000000  1.826210e+07
```

	Poverty	const	Infant Mort	White	Crime	Doctors	Traf Deaths	University	Unemployed	Income	Population
States											
Florida	13.2	1.0	7.3	79.8	723	247.9	1.56	25.8	6.2	47778	18262096
Missouri	13.4	1.0	7.4	85.0	505	246.0	1.43	25.0	6.1	46867	5905750
Alabama	15.7	1.0	9.0	71.0	448	218.2	1.81	22.0	5.0	42666	4634063

States	Poverty	const	Infant Mort	White	Crime	Doctors	Traf Deaths	University	Unemployed	Income	Population
South Carolina	15.7	1.0	8.4	68.7	788	229.8	2.09	23.7	6.9	44625	4417059
Oklahoma	15.9	1.0	8.0	78.1	500	173.5	1.58	22.2	3.8	42822	3608759
Arkansas	17.3	1.0	8.5	80.8	529	203.4	1.96	18.8	5.1	38815	2841595

```
<function __main__.derive_xnames(y)>
```