

HW1

Ramy Khalef

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Requirement 1

```
library(tidyverse)
library(tinytex)
library(foreign)
```

Requirement 2

```
setwd("C:/Users/Ramy Khalaf/Documents/PhD/Phd Materials/Spring 2021/Data science/Assignment/1//hw1-ramy")
data <- read.dta("mto_sci_puf_cells_20130206.dta")
head(data) # showing only first 6 observations because it is long
```

```
##   cell_id mn_happy_scale123_z_ad mn_happy_scale123_ad
## 1      1          -0.34977543          1.705882
## 2      2           0.28878802          2.157895
## 3      3           0.28878802          2.157895
## 4      4          -0.01275583          1.944444
## 5      5           0.24231723          2.125000
## 6      6           0.26754424          2.142857
##   mn_happy_verypretty_happy_ad mn_happy_very_happy_ad mn_rad_c9010t_perpov_yr1
## 1                0.5882353                0.1176471                0.4668750
## 2                0.7894737                0.3684210                0.4586842
## 3                0.8421053                0.3157895                0.5023685
## 4                0.7222222                0.2222222                0.2044444
## 5                0.8125000                0.3125000                0.2156250
## 6                0.7857143                0.3571429                0.1811538
##   mn_rad_c9010t_perpov_yr5 mn_rad_c9010t_perpov_m08 mn_f_c9010t_perpov_dw
## 1                0.4244118                0.2850000                0.3692894
## 2                0.3723684                0.2644737                0.3461874
## 3                0.4286842                0.2576316                0.3847574
## 4                0.1444445                0.1755556                0.1757596
## 5                0.1975000                0.1681250                0.2041654
```

## 6	0.1673077	0.1750000	0.2162084
## mn_f_c9010t_perpov_dw_zc00t mn_f_c9010t_perpov_dw_z			
## 1	1.8648560	-0.2134276	
## 2	1.6776847	-0.3970376	
## 3	1.9901773	-0.0904909	
## 4	0.2968872	-1.7515616	
## 5	0.5270300	-1.5257978	
## 6	0.6246011	-1.4300833	
## mn_f_c9010t_perpov_dw_und20 mn_f_c9010t_perpov_dw_und30			
## 1	0.05882353	0.1764706	
## 2	0.05263158	0.2631579	
## 3	0.05263158	0.2631579	
## 4	0.72222221	0.9444444	
## 5	0.62500000	0.8750000	
## 6	0.50000000	0.8571429	
## mn_f_c9010t_perpov_dw_und40 mn_rad_c9010t_pminority_m08			
## 1	0.5882353	0.8629411	
## 2	0.6842105	0.8507895	
## 3	0.4210526	0.7739474	
## 4	1.0000000	0.7422222	
## 5	0.9375000	0.7196875	
## 6	0.9285714	0.8403571	
## mn_f_c9010t_pminority_dw mn_f_c9010t_pminority_dw_z mn_f_spl_moves_n			
## 1	0.8878819	0.04780718	3.411765
## 2	0.7858317	-0.58293563	2.947368
## 3	0.8358445	-0.27382153	3.105263
## 4	0.6524160	-1.40754032	3.055556
## 5	0.7533627	-0.78361762	3.937500
## 6	0.8019626	-0.48323604	3.571429
## mn_f_nb_safe_unsafday_ad mn_f_hc_hsgprb_fix mn_f_sn_monit_graffiti_ad			
## 1	0.17647059	1.000000	0.7058824
## 2	0.15789473	2.631579	0.5789474
## 3	0.05263158	1.578947	0.5789474
## 4	0.11111111	1.388889	0.6666667
## 5	0.06250000	1.500000	0.8125000
## 6	0.07142857	1.857143	0.6428571
## mn_f_sn_net_anyfrndgrad_ad mn_f_ec_idx_z_ad mn_f_ph_idx_fix_z_ad			
## 1	0.5882353	-0.15161270	0.10141525
## 2	0.8421053	-0.07541321	-0.31206441
## 3	0.5263158	-0.10535166	-0.05579822
## 4	0.7647059	0.20191853	0.23690723
## 5	0.5625000	0.22336833	-0.13511603
## 6	0.7142857	0.10591456	-0.03569046
## mn_f_mh_idx_z_ad mn_f_in_selfsuf_ad mn_f_em_emp_ad mn_rad_in_head2009			
## 1	0.12062371	0.4117647	0.4705882
## 2	0.17235731	0.4210526	0.4736842
## 3	-0.01252877	0.3684210	0.4210526
## 4	0.32260719	0.5555556	0.5555556
## 5	0.08372110	0.5625000	0.5625000
## 6	-0.27264792	0.5000000	0.5000000
## mn_f_in_tanf_fam mn_rad_in_govt2009 mn_f_ph_hlth_fair_ad mn_f_ph_asma_y_ad			
## 1	0.1176471	4991.176	0.4117647
## 2	0.1578947	5021.053	0.4736842
## 3	0.1578947	3336.111	0.3684210

## 4	0.1111111	2000.000	0.5000000	0.05555556
## 5	0.0625000	4046.875	0.3125000	0.37500000
## 6	0.1428571	1623.077	0.3571429	0.35714287
##	mn_f_ph_bmi_obese_srm_ad mn_f_ph_bp_hi mn_f_ph_limit_liftstair			
## 1	0.5294118	0.2941177	0.4705882	
## 2	0.6842105	0.4117647	0.6315789	
## 3	0.5789474	0.3157895	0.5789474	
## 4	0.6111111	0.2777778	0.3888889	
## 5	0.8750000	0.3750000	0.3750000	
## 6	0.3571429	0.6153846	0.5000000	
##	mn_f_mh_k6_raw_ad mn_f_mh_dep_y_ad mn_f_mh_gad_y_ad mn_f_mh_calm_ad			
## 1	6.882353	0.1176471	0.0000000	0.4705882
## 2	5.947369	0.1052632	0.05263158	0.5789474
## 3	5.263158	0.1052632	0.15789473	0.5263158
## 4	5.444445	0.1111111	0.0000000	0.7777778
## 5	5.312500	0.0000000	0.12500000	0.4375000
## 6	4.357143	0.1428571	0.21428572	0.4285714
##	mn_f_ph_habit_sleep_78hrs_ad mn_x_rad_ad_male mn_x_rad_ad_le_35			
## 1	0.3125000	0.00409906	0.002035522	
## 2	0.2777778	0.00366758	0.001821256	
## 3	0.2105263	0.00366758	0.001821256	
## 4	0.1666667	0.00000000	0.055555556	
## 5	0.2142857	0.00000000	0.125000000	
## 6	0.0000000	0.00497743	0.073900275	
##	mn_x_rad_ad_36_40 mn_x_rad_ad_41_45 mn_x_rad_ad_46_50			
## 1	0.1334294	0.1252337	0.4843070	
## 2	0.1720158	0.2699460	0.3806958	
## 3	0.1193842	0.3752091	0.1701694	
## 4	0.1666667	0.2222222	0.3333333	
## 5	0.3125000	0.3750000	0.1250000	
## 6	0.1620214	0.2949267	0.2309442	
##	mn_x_rad_ad_ethrace_black_nh mn_x_rad_ad_ethrace_hisp mn_x_f_ad_working			
## 1	0.9452755	0.02371931	0.3529412	
## 2	0.9510360	0.02122254	0.4210526	
## 3	0.9510360	0.02122254	0.2228548	
## 4	1.0000000	0.00000000	0.2777778	
## 5	1.0000000	0.00000000	0.0625000	
## 6	0.9335489	0.02880202	0.2857143	
##	mn_x_f_ad_edged mn_x_f_ad_edgradhs mn_x_f_ad_edgradhs_miss mn_x_f_ad_edinsch			
## 1	0.1764706	0.4117647	0.00000000	0.17647059
## 2	0.1578947	0.4210526	0.00000000	0.00000000
## 3	0.3157895	0.3157895	0.05263158	0.27167413
## 4	0.2222222	0.5000000	0.00000000	0.05555556
## 5	0.0000000	0.5000000	0.06250000	0.07261302
## 6	0.2857143	0.3571429	0.00000000	0.00000000
##	mn_x_f_ad_nevmarr mn_x_f_ad_parentu18 mn_x_f_hood_5y mn_x_f_hood_chat			
## 1	0.7058824	0.2130516	0.6470588	0.8235294
## 2	0.7894737	0.1216284	0.3157895	0.6842105
## 3	0.6706891	0.2795231	0.7095568	0.6116058
## 4	0.7222222	0.2222222	0.5000000	0.6111111
## 5	0.8750000	0.4375000	0.5000000	0.7500000
## 6	0.7857143	0.2587055	0.5714286	0.5000000
##	mn_x_f_hood_nbrkid mn_x_f_hood_nofamily mn_x_f_hood_nofriend			
## 1	0.7058824	0.5882353	0.4117647	

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## 2      0.6315789      0.7368421      0.3157895
## 3      0.6652020      0.7223717      0.5501400
## 4      0.8333333      0.8333333      0.5555556
## 5      0.6875000      0.7500000      0.4657913
## 6      0.4285714      0.9285714      0.4285714
## mn_x_f_hood_unsafenit mn_x_f_hood_verydissat mn_x_f_hh_car mn_x_f_hh_disabl
## 1      0.4705882      0.7058824      0.0000000      0.05882353
## 2      0.4210526      0.6842105      0.05263158      0.10526316
## 3      0.5038528      0.4512335      0.05487457      0.16388738
## 4      0.4444444      0.5000000      0.05555556      0.11111111
## 5      0.6875000      0.6250000      0.06250000      0.06250000
## 6      0.5714286      0.6428571      0.00000000      0.07142857
## mn_x_f_hh_noteens mn_x_f_hh_afdc mn_x_f_hh_victim mn_x_f_hh_size2
## 1      0.4705882      0.5882353      0.4705882      0.3529412
## 2      0.6842105      0.6842105      0.4736842      0.1578947
## 3      0.4210526      0.7794244      0.4443279      0.3157895
## 4      0.5000000      0.9444444      0.5555556      0.1666667
## 5      0.7500000      0.9375000      0.5625000      0.3125000
## 6      0.5714286      0.7142857      0.2857143      0.2857143
## mn_x_f_hh_size3 mn_x_f_hh_size4 mn_x_f_hous_fndapt mn_x_f_hous_mov3tm
## 1      0.2352941      0.17647059      0.7058824      0.11764706
## 2      0.4736842      0.05263158      0.4736842      0.05263158
## 3      0.3684210      0.26315790      0.4503985      0.11195359
## 4      0.3888889      0.27777779      0.4444444      0.11111111
## 5      0.2500000      0.37500000      0.6250000      0.18750000
## 6      0.3571429      0.21428572      0.6112552      0.00000000
## mn_x_f_hous_sec8bef mn_x_f_hous_movdrgs mn_x_f_hous_movschl mn_x_f_release1
## 1      0.4705882      0.8235294      0.4117647      0.4117647
## 2      0.4736842      0.5789474      0.4736842      0.5263158
## 3      0.6075669      0.9137495      0.4365107      0.1052632
## 4      0.5000000      0.8888889      0.3888889      0.6111111
## 5      0.5625000      0.8616925      0.2769521      0.6250000
## 6      0.3571429      0.8419343      0.3165167      0.2142857
## mn_cov_hous_movapt mn_cov_hous_movjob mn_rad_svy_bl_totincm_2009d
## 1      0.5294118      0.117647059      12367.647
## 2      0.6315789      0.000000000      12823.685
## 3      0.4013603      0.111532092      10538.889
## 4      0.4444444      0.055555556      8077.778
## 5      0.6588718      0.003722178      8243.750
## 6      0.3958535      0.075682491      7292.857
## mn_f_svy_cmove predsg_perpov_dw_z predsg_pminority_dw_z x_f_site_balt
## 1      0      -0.9517738      -0.6498632      1=Baltimore
## 2      0      -0.9517738      -0.6498632      1=Baltimore
## 3      0      -0.9517738      -0.6498632      1=Baltimore
## 4      1      -0.9517738      -0.6498632      1=Baltimore
## 5      1      -0.9517738      -0.6498632      1=Baltimore
## 6      1      -0.9517738      -0.6498632      1=Baltimore
##
## x_f_site_bos
## 1 0=Baltimore, Chicago, Los Angeles or New York
## 2 0=Baltimore, Chicago, Los Angeles or New York
## 3 0=Baltimore, Chicago, Los Angeles or New York
## 4 0=Baltimore, Chicago, Los Angeles or New York
## 5 0=Baltimore, Chicago, Los Angeles or New York
## 6 0=Baltimore, Chicago, Los Angeles or New York

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##                                x_f_site_chi
## 1 0=Baltimore, Boston, Los Angeles or New York
## 2 0=Baltimore, Boston, Los Angeles or New York
## 3 0=Baltimore, Boston, Los Angeles or New York
## 4 0=Baltimore, Boston, Los Angeles or New York
## 5 0=Baltimore, Boston, Los Angeles or New York
## 6 0=Baltimore, Boston, Los Angeles or New York
##                                x_f_site_la
## 1 0=Baltimore, Boston, Chicago or New York
## 2 0=Baltimore, Boston, Chicago or New York
## 3 0=Baltimore, Boston, Chicago or New York
## 4 0=Baltimore, Boston, Chicago or New York
## 5 0=Baltimore, Boston, Chicago or New York
## 6 0=Baltimore, Boston, Chicago or New York
##                                sgx_rasite_3g_all_nyc    ra_site
## 1 0=Baltimore, Boston, Chicago or Los Angeles 1=Baltimore
## 2 0=Baltimore, Boston, Chicago or Los Angeles 1=Baltimore
## 3 0=Baltimore, Boston, Chicago or Los Angeles 1=Baltimore
## 4 0=Baltimore, Boston, Chicago or Los Angeles 1=Baltimore
## 5 0=Baltimore, Boston, Chicago or Los Angeles 1=Baltimore
## 6 0=Baltimore, Boston, Chicago or Los Angeles 1=Baltimore
##                                ra_group    ra_grp_exp
## 1 1=Low-Poverty Voucher/Experimental 1=Low-Poverty Voucher/Exp. Group
## 2 1=Low-Poverty Voucher/Experimental 1=Low-Poverty Voucher/Exp. Group
## 3 1=Low-Poverty Voucher/Experimental 1=Low-Poverty Voucher/Exp. Group
## 4 1=Low-Poverty Voucher/Experimental 1=Low-Poverty Voucher/Exp. Group
## 5 1=Low-Poverty Voucher/Experimental 1=Low-Poverty Voucher/Exp. Group
## 6 1=Low-Poverty Voucher/Experimental 1=Low-Poverty Voucher/Exp. Group
##                                ra_grp_s8    ra_grp_control
## 1 0=Low-Poverty Voucher/Exp. or Control Group 0=Traditional Voucher/Section 8
## 2 0=Low-Poverty Voucher/Exp. or Control Group 0=Traditional Voucher/Section 8
## 3 0=Low-Poverty Voucher/Exp. or Control Group 0=Traditional Voucher/Section 8
## 4 0=Low-Poverty Voucher/Exp. or Control Group 0=Traditional Voucher/Section 8
## 5 0=Low-Poverty Voucher/Exp. or Control Group 0=Traditional Voucher/Section 8
## 6 0=Low-Poverty Voucher/Exp. or Control Group 0=Traditional Voucher/Section 8
##                                ra_poolgrp_exps8 sd_happy_scale123_z_ad
## 1 1=Low-Poverty/Exp. Or Traditional/Sec8 Voucher 0.9691127
## 2 1=Low-Poverty/Exp. Or Traditional/Sec8 Voucher 1.0803281
## 3 1=Low-Poverty/Exp. Or Traditional/Sec8 Voucher 0.9722953
## 4 1=Low-Poverty/Exp. Or Traditional/Sec8 Voucher 1.0247217
## 5 1=Low-Poverty/Exp. Or Traditional/Sec8 Voucher 1.0154510
## 6 1=Low-Poverty/Exp. Or Traditional/Sec8 Voucher 1.0882531
## sd_happy_scale123_ad sd_happy_verypretty_happy_ad sd_happy_very_happy_ad
## 1 0.6859943 0.5072997 0.3321056
## 2 0.7647191 0.4188539 0.4955946
## 3 0.6882472 0.3746343 0.4775669
## 4 0.7253577 0.4608886 0.4277926
## 5 0.7187953 0.4031129 0.4787135
## 6 0.7703289 0.4258153 0.4972452
## sd_rad_c9010t_perpov_yr1 sd_rad_c9010t_perpov_yr5 sd_rad_c9010t_perpov_m08
## 1 0.1842541 0.14376502 0.18408558
## 2 0.1885386 0.13730915 0.14454809
## 3 0.2005781 0.17375623 0.17460565
## 4 0.2301271 0.10794728 0.11074466

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## 5	0.1801284	0.11868726	0.15670434
## 6	0.1973803	0.08397955	0.08467131
##	sd_f_c9010t_perpov_dw	sd_f_c9010t_perpov_dw_zc00t	sd_f_c9010t_perpov_dw_z
## 1	0.10930628	0.8855940	0.8687432
## 2	0.09564403	0.7749032	0.7601587
## 3	0.10863059	0.8801197	0.8633730
## 4	0.07750965	0.6279793	0.6160303
## 5	0.08802394	0.7131656	0.6995957
## 6	0.07863019	0.6370578	0.6249362
##	sd_f_c9010t_perpov_dw_und20	sd_f_c9010t_perpov_dw_und30	
## 1	0.2425356	0.3929526	
## 2	0.2294157	0.4524139	
## 3	0.2294157	0.4524139	
## 4	0.4608886	0.2357023	
## 5	0.5000000	0.3415650	
## 6	0.5188745	0.3631365	
##	sd_f_c9010t_perpov_dw_und40	sd_rad_c9010t_pminority_m08	
## 1	0.5072997	0.2462282	
## 2	0.4775669	0.2112020	
## 3	0.5072573	0.2593774	
## 4	0.0000000	0.2496481	
## 5	0.2500000	0.3043653	
## 6	0.2672612	0.1964929	
##	sd_f_c9010t_pminority_dw	sd_f_c9010t_pminority_dw_z	sd_f_spl_moves_n
## 1	0.0945562	0.5844247	2.647141
## 2	0.1959103	1.2108655	1.957143
## 3	0.1332502	0.8235812	1.696229
## 4	0.2074747	1.2823417	1.625974
## 5	0.1662430	1.0275002	1.569235
## 6	0.1491055	0.9215782	2.243428
##	sd_f_nb_safe_unsafeday_ad	sd_f_hc_hsgprb_fix	sd_f_sn_monit_graffiti_ad
## 1	0.3929526	1.658312	0.4696682
## 2	0.3746343	2.290331	0.5072573
## 3	0.2294157	1.574653	0.5072573
## 4	0.3233808	1.195033	0.4850712
## 5	0.2500000	1.751190	0.4031129
## 6	0.2672612	2.032700	0.4972452
##	sd_f_sn_net_anyfrndgrad_ad	sd_f_ec_idx_z_ad	sd_f_ph_idx_fix_z_ad
## 1	0.5072997	1.0701416	0.8637001
## 2	0.3746343	1.0964566	1.0721997
## 3	0.5129892	0.9997550	0.7596593
## 4	0.4372373	0.8153585	0.9783034
## 5	0.5123475	1.0596459	0.9290795
## 6	0.4688072	1.0004293	1.1764442
##	sd_f_mh_idx_z_ad	sd_f_in_selfsuf_ad	sd_f_em_emp_ad
## 1	1.0300382	0.5072997	0.5144957
## 2	1.0488982	0.5072573	0.5129892
## 3	1.0025865	0.4955946	0.5072573
## 4	0.7316885	0.5113100	0.5113100
## 5	0.6825469	0.5123475	0.5123475
## 6	1.1068542	0.5222329	0.5222329
##	sd_f_in_tanf_fam	sd_rad_in_govt2009	sd_f_ph_hlth_fair_ad
## 1	0.3321056	6258.600	0.5072997
## 2	0.3746343	6576.375	0.5129892
			sd_f_ph_asma_y_ad
			0.4696682
			0.4955946

## 3	0.3746343	4054.257	0.4955946	0.4955946
## 4	0.3233808	5236.355	0.5144957	0.2357023
## 5	0.2500000	5447.705	0.4787135	0.5000000
## 6	0.3631365	2879.642	0.4972452	0.4972452
##	sd_f_ph_bmi_obese_srm_ad	sd_f_ph_bp_hi	sd_f_ph_limit_liftstair	
## 1	0.5144957	0.4696682	0.5144957	
## 2	0.4775669	0.5072997	0.4955946	
## 3	0.5072573	0.4775669	0.5072573	
## 4	0.5016313	0.4608886	0.5016313	
## 5	0.3415650	0.5000000	0.5000000	
## 6	0.4972452	0.5063697	0.5188745	
##	sd_f_mh_k6_raw_ad	sd_f_mh_dep_y_ad	sd_f_mh_gad_y_ad	sd_f_mh_calm_ad
## 1	5.946452	0.3321056	0.0000000	0.5144957
## 2	5.995125	0.3153018	0.2294157	0.5072573
## 3	3.124137	0.3153018	0.3746343	0.5129892
## 4	5.511723	0.3233808	0.0000000	0.4277926
## 5	4.331570	0.0000000	0.3415650	0.5123475
## 6	4.325366	0.3631365	0.4258153	0.5135526
##	sd_f_ph_habit_sleep_78hrs_ad	sd_x_rad_ad_male	sd_x_rad_ad_le_35	
## 1	0.4787135	0.01690086	0.008392671	
## 2	0.4608886	0.01598661	0.007938672	
## 3	0.4188539	0.01598661	0.007938672	
## 4	0.3834825	0.00000000	0.235702261	
## 5	0.4258153	0.00000000	0.341565013	
## 6	0.0000000	0.01862384	0.266709268	
##	sd_x_rad_ad_36_40	sd_x_rad_ad_41_45	sd_x_rad_ad_46_50	
## 1	0.3325401	0.3307203	0.5041692	
## 2	0.3734066	0.4492023	0.4888044	
## 3	0.3163319	0.4911312	0.3729906	
## 4	0.3834825	0.4277926	0.4850712	
## 5	0.4787135	0.5000000	0.3415650	
## 6	0.3620956	0.4640035	0.4213256	
##	sd_x_rad_ad_ethrace_black_nh	sd_x_rad_ad_ethrace_hisp	sd_x_f_ad_working	
## 1	0.2256348	0.09779724	0.4925922	
## 2	0.2134291	0.09250692	0.5072573	
## 3	0.2134291	0.09250692	0.4157489	
## 4	0.0000000	0.00000000	0.4608886	
## 5	0.0000000	0.00000000	0.2500000	
## 6	0.2486374	0.10776731	0.4688072	
##	sd_x_f_ad_edged	sd_x_f_ad_edgradhs	sd_x_f_ad_edgradhs_miss	sd_x_f_ad_edinsch
## 1	0.3929526	0.5072997	0.0000000	0.3929526
## 2	0.3746343	0.5072573	0.0000000	0.0000000
## 3	0.4775669	0.4775669	0.2294157	0.4486927
## 4	0.4277926	0.5144957	0.0000000	0.2357023
## 5	0.0000000	0.5163978	0.2500000	0.2505753
## 6	0.4688072	0.4972452	0.0000000	0.0000000
##	sd_x_f_ad_nevmarr	sd_x_f_ad_parentu18	sd_x_f_hood_5y	sd_x_f_hood_chat
## 1	0.4696682	0.3890468	0.4925922	0.3929526
## 2	0.4188539	0.3175958	0.4775669	0.4775669
## 3	0.4717305	0.4479678	0.4512927	0.4875028
## 4	0.4608886	0.4277926	0.5144957	0.5016313
## 5	0.3415650	0.5123475	0.5163978	0.4472136
## 6	0.4258153	0.4166133	0.5135526	0.5188745
##	sd_x_f_hood_nbrkid	sd_x_f_hood_nofamily	sd_x_f_hood_nofriend	

## 1	0.4696682	0.5072997	0.5072997	
## 2	0.4955946	0.4524139	0.4775669	
## 3	0.4714477	0.4479037	0.4974644	
## 4	0.3834825	0.3834825	0.5113100	
## 5	0.4787135	0.4472136	0.4988999	
## 6	0.5135526	0.2672612	0.5135526	
##	sd_x_f_hood_unsafenit	sd_x_f_hood_verydissat	sd_x_f_hh_car	sd_x_f_hh_disabl
## 1	0.5144957	0.4696682	0.0000000	0.2425356
## 2	0.5072573	0.4775669	0.2294157	0.3153018
## 3	0.5002819	0.4977844	0.2290807	0.3728749
## 4	0.5113100	0.5144957	0.2357023	0.3233808
## 5	0.4787135	0.5000000	0.2500000	0.2500000
## 6	0.5135526	0.4972452	0.0000000	0.2672612
##	sd_x_f_hh_noteens	sd_x_f_hh_afdc	sd_x_f_hh_victim	sd_x_f_hh_size2
## 1	0.5144957	0.5072997	0.5144957	0.4925922
## 2	0.4775669	0.4775669	0.5129892	0.3746343
## 3	0.5072573	0.4158017	0.4969043	0.4775669
## 4	0.5144957	0.2357023	0.5113100	0.3834825
## 5	0.4472136	0.2500000	0.5123475	0.4787135
## 6	0.5135526	0.4688072	0.4688072	0.4688072
##	sd_x_f_hh_size3	sd_x_f_hh_size4	sd_x_f_hous_fndapt	sd_x_f_hous_mov3tm
## 1	0.4372373	0.3929526	0.4696682	0.3321056
## 2	0.5129892	0.2294157	0.5129892	0.2294157
## 3	0.4955946	0.4524139	0.4975813	0.3142911
## 4	0.5016313	0.4608886	0.5113100	0.3233808
## 5	0.4472136	0.5000000	0.5000000	0.4031129
## 6	0.4972452	0.4258153	0.4867496	0.0000000
##	sd_x_f_hous_sec8bef	sd_x_f_hous_movdrgs	sd_x_f_hous_movschl	sd_x_f_release1
## 1	0.5144957	0.3929526	0.5072997	0.5072997
## 2	0.5129892	0.5072573	0.5129892	0.5129892
## 3	0.4877428	0.2350722	0.4677131	0.3153018
## 4	0.5144957	0.3233808	0.5016313	0.5016313
## 5	0.5123475	0.3405164	0.4441263	0.5000000
## 6	0.4972452	0.3611465	0.4627180	0.4258153
##	sd_cov_hous_movapt	sd_cov_hous_movjob	sd_rad_svy_bl_totincm_2009d	
## 1	0.5144957	0.33210558	8087.277	
## 2	0.4955946	0.00000000	9574.610	
## 3	0.4607008	0.31364742	8386.536	
## 4	0.5113100	0.23570226	2915.033	
## 5	0.4724345	0.01488871	4782.952	
## 6	0.4883181	0.26650977	3582.160	
##	sd_f_svy_cmove	cell_numobs	cell_sumwgt	wt_happy_scale123_z_ad
## 1	0	17	13.46493	13.46493
## 2	0	19	15.04904	15.04904
## 3	0	19	15.04904	15.04904
## 4	0	18	14.25699	14.25699
## 5	0	16	12.67288	12.67288
## 6	0	14	11.08877	11.08877
##	wt_happy_scale123_ad	wt_happy_verypretty_happy_ad	wt_happy_very_happy_ad	
## 1	13.46493	13.46493	13.46493	
## 2	15.04904	15.04904	15.04904	
## 3	15.04904	15.04904	15.04904	
## 4	14.25699	14.25699	14.25699	
## 5	12.67288	12.67288	12.67288	

## 6	11.08877	11.08877	11.08877
##	wt_rad_c9010t_perpov_yr1	wt_rad_c9010t_perpov_yr5	wt_rad_c9010t_perpov_m08
## 1	12.67288	13.46493	13.46493
## 2	15.04904	15.04904	15.04904
## 3	15.04904	15.04904	15.04904
## 4	14.25699	14.25699	14.25699
## 5	12.67288	12.67288	12.67288
## 6	10.29671	10.29671	11.08877
##	wt_f_c9010t_perpov_dw	wt_f_c9010t_perpov_dw_zc00t	wt_f_c9010t_perpov_dw_z
## 1	13.46493	13.46493	13.46493
## 2	15.04904	15.04904	15.04904
## 3	15.04904	15.04904	15.04904
## 4	14.25699	14.25699	14.25699
## 5	12.67288	12.67288	12.67288
## 6	11.08877	11.08877	11.08877
##	wt_f_c9010t_perpov_dw_und20	wt_f_c9010t_perpov_dw_und30	
## 1	13.46493	13.46493	
## 2	15.04904	15.04904	
## 3	15.04904	15.04904	
## 4	14.25699	14.25699	
## 5	12.67288	12.67288	
## 6	11.08877	11.08877	
##	wt_f_c9010t_perpov_dw_und40	wt_rad_c9010t_pminority_m08	
## 1	13.46493	13.46493	
## 2	15.04904	15.04904	
## 3	15.04904	15.04904	
## 4	14.25699	14.25699	
## 5	12.67288	12.67288	
## 6	11.08877	11.08877	
##	wt_f_c9010t_pminority_dw	wt_f_c9010t_pminority_dw_z	wt_f_spl_moves_n
## 1	13.46493	13.46493	13.46493
## 2	15.04904	15.04904	15.04904
## 3	15.04904	15.04904	15.04904
## 4	14.25699	14.25699	14.25699
## 5	12.67288	12.67288	12.67288
## 6	11.08877	11.08877	11.08877
##	wt_f_nb_safe_unsafeday_ad	wt_f_hc_hsgprb_fix	wt_f_sn_monit_graffiti_ad
## 1	13.46493	13.46493	13.46493
## 2	15.04904	15.04904	15.04904
## 3	15.04904	15.04904	15.04904
## 4	14.25699	14.25699	14.25699
## 5	12.67288	12.67288	12.67288
## 6	11.08877	11.08877	11.08877
##	wt_f_sn_net_anyfrndgrad_ad	wt_f_ec_idx_z_ad	wt_f_ph_idx_fix_z_ad
## 1	13.46493	13.46493	13.46493
## 2	15.04904	15.04904	15.04904
## 3	15.04904	15.04904	15.04904
## 4	13.46493	14.25699	14.25699
## 5	12.67288	12.67288	12.67288
## 6	11.08877	11.08877	11.08877
##	wt_f_mh_idx_z_ad	wt_f_in_selfsuf_ad	wt_f_em_emp_ad
## 1	13.46493	13.464933	13.464933
## 2	15.04904	15.049043	15.049043
## 3	15.04904	15.049043	15.049043

## 4	14.25699	14.256988	14.256988	13.46493
## 5	12.67288	12.672878	12.672878	12.67288
## 6	11.08877	9.504659	9.504659	11.08877
##	wt_f_in_tanf_fam	wt_rad_in_govt2009	wt_f_ph_hlth_fair_ad	wt_f_ph_asma_y_ad
## 1	13.46493	13.46493	13.46493	13.46493
## 2	15.04904	15.04904	15.04904	15.04904
## 3	15.04904	14.25699	15.04904	15.04904
## 4	14.25699	14.25699	14.25699	14.25699
## 5	12.67288	12.67288	12.67288	12.67288
## 6	11.08877	10.29671	11.08877	11.08877
##	wt_f_ph_bmi_obese_srm_ad	wt_f_ph_bp_hi	wt_f_ph_limit_liftstair	
## 1	13.46493	13.46493	13.46493	
## 2	15.04904	13.46493	15.04904	
## 3	15.04904	15.04904	15.04904	
## 4	14.25699	14.25699	14.25699	
## 5	12.67288	12.67288	12.67288	
## 6	11.08877	10.29671	11.08877	
##	wt_f_mh_k6_raw_ad	wt_f_mh_dep_y_ad	wt_f_mh_gad_y_ad	wt_f_mh_calm_ad
## 1	13.46493	13.46493	13.46493	13.46493
## 2	15.04904	15.04904	15.04904	15.04904
## 3	15.04904	15.04904	15.04904	15.04904
## 4	14.25699	14.25699	14.25699	14.25699
## 5	12.67288	12.67288	12.67288	12.67288
## 6	11.08877	11.08877	11.08877	11.08877
##	wt_f_ph_habit_sleep_78hrs_ad	wt_x_rad_ad_male	wt_x_rad_ad_le_35	
## 1	12.67288	13.46493	13.46493	
## 2	14.25699	15.04904	15.04904	
## 3	15.04904	15.04904	15.04904	
## 4	14.25699	14.25699	14.25699	
## 5	11.08877	12.67288	12.67288	
## 6	10.29671	11.08877	11.08877	
##	wt_x_rad_ad_36_40	wt_x_rad_ad_41_45	wt_x_rad_ad_46_50	
## 1	13.46493	13.46493	13.46493	
## 2	15.04904	15.04904	15.04904	
## 3	15.04904	15.04904	15.04904	
## 4	14.25699	14.25699	14.25699	
## 5	12.67288	12.67288	12.67288	
## 6	11.08877	11.08877	11.08877	
##	wt_x_rad_ad_ethrace_black_nh	wt_x_rad_ad_ethrace_hisp	wt_x_f_ad_working	
## 1	13.46493	13.46493	13.46493	
## 2	15.04904	15.04904	15.04904	
## 3	15.04904	15.04904	15.04904	
## 4	14.25699	14.25699	14.25699	
## 5	12.67288	12.67288	12.67288	
## 6	11.08877	11.08877	11.08877	
##	wt_x_f_ad_edged	wt_x_f_ad_edgradhs	wt_x_f_ad_edgradhs_miss	wt_x_f_ad_edinsch
## 1	13.46493	13.46493	13.46493	13.46493
## 2	15.04904	15.04904	15.04904	15.04904
## 3	15.04904	15.04904	15.04904	15.04904
## 4	14.25699	14.25699	14.25699	14.25699
## 5	12.67288	12.67288	12.67288	12.67288
## 6	11.08877	11.08877	11.08877	11.08877
##	wt_x_f_ad_nevmarr	wt_x_f_ad_parentu18	wt_x_f_hood_5y	wt_x_f_hood_chat
## 1	13.46493	13.46493	13.46493	13.46493

## 2	15.04904	15.04904	15.04904	15.04904
## 3	15.04904	15.04904	15.04904	15.04904
## 4	14.25699	14.25699	14.25699	14.25699
## 5	12.67288	12.67288	12.67288	12.67288
## 6	11.08877	11.08877	11.08877	11.08877
##	wt_x_f_hood_nbrkid	wt_x_f_hood_nofamily	wt_x_f_hood_nofriend	
## 1	13.46493	13.46493	13.46493	
## 2	15.04904	15.04904	15.04904	
## 3	15.04904	15.04904	15.04904	
## 4	14.25699	14.25699	14.25699	
## 5	12.67288	12.67288	12.67288	
## 6	11.08877	11.08877	11.08877	
##	wt_x_f_hood_unsafenit	wt_x_f_hood_verydissat	wt_x_f_hh_car	wt_x_f_hh_disabl
## 1	13.46493	13.46493	13.46493	13.46493
## 2	15.04904	15.04904	15.04904	15.04904
## 3	15.04904	15.04904	15.04904	15.04904
## 4	14.25699	14.25699	14.25699	14.25699
## 5	12.67288	12.67288	12.67288	12.67288
## 6	11.08877	11.08877	11.08877	11.08877
##	wt_x_f_hh_noteens	wt_x_f_hh_afdc	wt_x_f_hh_victim	wt_x_f_hh_size2
## 1	13.46493	13.46493	13.46493	13.46493
## 2	15.04904	15.04904	15.04904	15.04904
## 3	15.04904	15.04904	15.04904	15.04904
## 4	14.25699	14.25699	14.25699	14.25699
## 5	12.67288	12.67288	12.67288	12.67288
## 6	11.08877	11.08877	11.08877	11.08877
##	wt_x_f_hh_size3	wt_x_f_hh_size4	wt_x_f_hous_fndapt	wt_x_f_hous_mov3tm
## 1	13.46493	13.46493	13.46493	13.46493
## 2	15.04904	15.04904	15.04904	15.04904
## 3	15.04904	15.04904	15.04904	15.04904
## 4	14.25699	14.25699	14.25699	14.25699
## 5	12.67288	12.67288	12.67288	12.67288
## 6	11.08877	11.08877	11.08877	11.08877
##	wt_x_f_hous_sec8bef	wt_x_f_hous_movdrgs	wt_x_f_hous_movschl	wt_x_f_release1
## 1	13.46493	13.46493	13.46493	13.46493
## 2	15.04904	15.04904	15.04904	15.04904
## 3	15.04904	15.04904	15.04904	15.04904
## 4	14.25699	14.25699	14.25699	14.25699
## 5	12.67288	12.67288	12.67288	12.67288
## 6	11.08877	11.08877	11.08877	11.08877
##	wt_cov_hous_movapt	wt_cov_hous_movjob	wt_rad_svy_bl_totincm_2009d	
## 1	13.46493	13.46493	13.46493	
## 2	15.04904	15.04904	15.04904	
## 3	15.04904	15.04904	14.25699	
## 4	14.25699	14.25699	14.25699	
## 5	12.67288	12.67288	12.67288	
## 6	11.08877	11.08877	11.08877	
##	wt_f_svy_cmove	mn_f_wt_totsvy		
## 1	13.46493	0.7920549		
## 2	15.04904	0.7920549		
## 3	15.04904	0.7920549		
## 4	14.25699	0.7920549		
## 5	12.67288	0.7920549		
## 6	11.08877	0.7920549		

Requirements 3 (ALL)

Header level 1

Header level 2

This is an italicized text

This is a bold text

- unordered list
 - sub-Item 1
 - sub-Item 2
 - * sub-sub-Item
- 1. Ordered Item 1
- 2. Ordered Item 2
- 3. Ordered Item 3
 - Ordered Item 3a
 - Ordered Item 3b



As you can see the image is pulled from the link (<https://cdn.hswstatic.com/gif/10-breathtaking-views-1-orig.jpg>)

Requirement 4

```
x <- 5 # radius of a circle  
x
```

```
## [1] 5
```

For a circle with the radius 5 and its area is about 78.5.

Requirement 5

This is done in RStudio

Requirement 6

```
# my_variable <- 10  
# my_variable  
# Error: object 'my_variable' not found
```

This is since the letter “i” in both are different (one has the dot and the other does not); as such, the second object is not available in the code to realize its value. The variable is not available in order to be called

Requirement 7

Showing R markdown in a new menu (source: <https://twitter.com/JosephTumber/status/1350185715976470531?s=20>). This is very helpful since I like to use many windows for better productivity.

Requirement 8

I would say the most difficult for me would have to be p-value fishing, since often in our research we are given a dataset and often we have to “fish” for what to look into the data. I would also like to say that a lot of times in reviewing of paper in journals, I notice that partial publication seems to be evident. Where not the entire story is detailed in attempts to get a “better” publication. This is very unethical.