

Homework 1:

Exercise1

1、 10498

2、 3374

3、 25510

4、 2765

5、

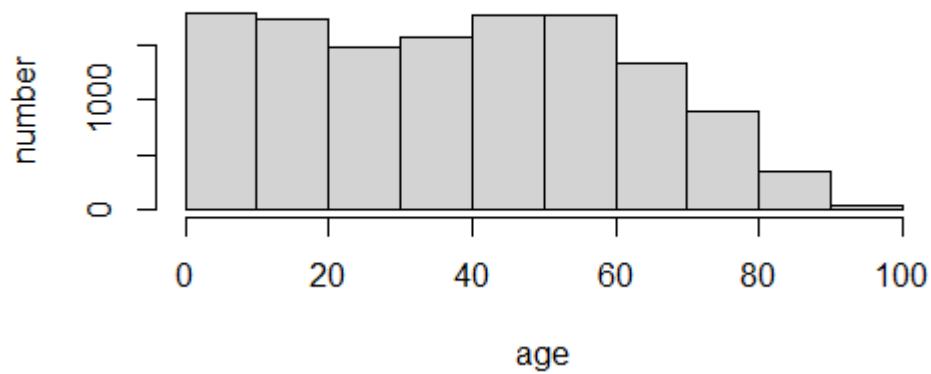
	profession	gender	
		Female	Male
	0	11	19
	11	30	57
	12	8	19
	13	29	78
	21	63	213
	22	65	114
	23	8	48
	31	68	98
	33	85	107
	34	184	142
	35	50	59
	37	179	260
	38	78	368
	42	258	110
	43	437	117
	44	1	2
	45	153	95
	46	410	340
	47	82	429
	48	22	215
	52	782	169
	53	27	182
	54	584	98
	55	353	101
	56	696	74
	62	64	443
	63	35	520
	64	29	246
	65	19	159
	67	147	237
	68	120	177
	69	40	82

6、 Gini=0.6671654

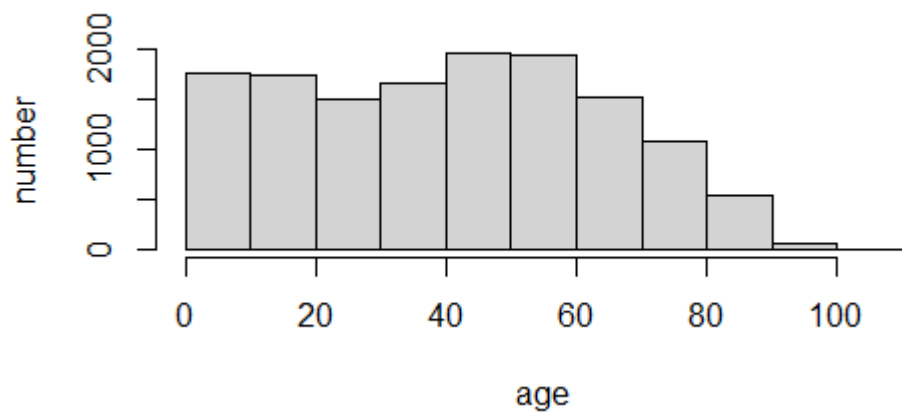
Gini=0.6655301

7、

Histogram of data8[data8\$gender == "Male",]\$age



Histogram of data8[data8\$gender == "Female",]\$age



There is little age difference between men and women

8、 3514

Exercise2

5、 3622

6、 8162

7、 7615

8、 55049

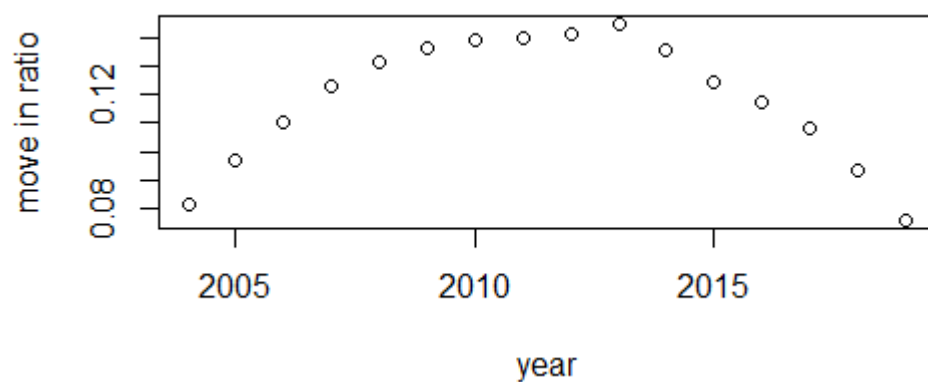
9、 14563

10、 2207811124040100 in 2007 and 2510263102990100 in 2010;

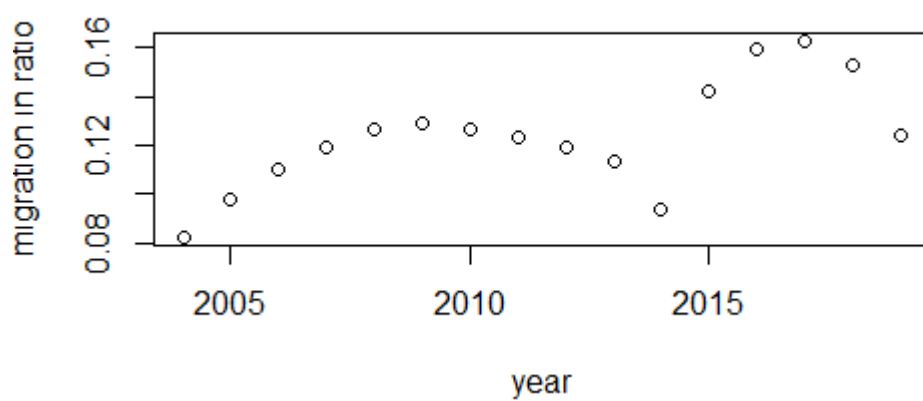
11、 11048 in 2010 and 11360 in 2011

Exercise3

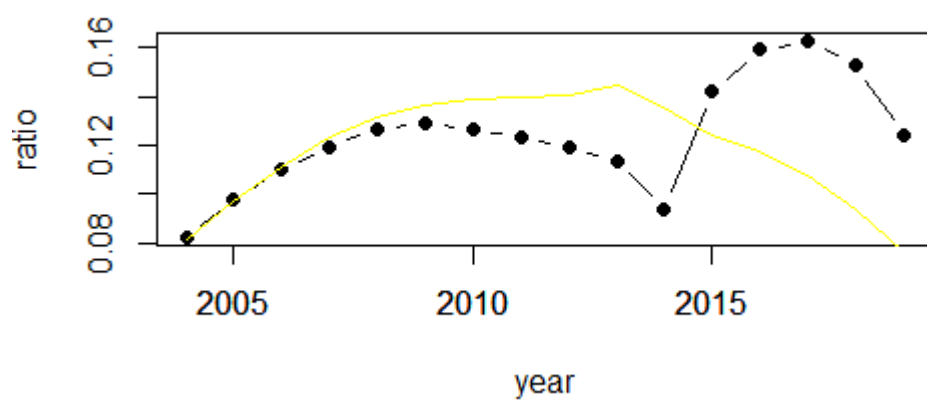
2



3、



4、



5、 2192

6、

2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
0.02563898	0.04433906	0.04088458	0.05486222	0.04852236	0.04373003	0.04655551	0.04294129	0.06076278	0.05113818
2014	2015	2016	2017	2018	2019				
0.05189696	0.05174720	0.05782748	0.05473243	0.06000399	0.26441693				