ESE527-practice2

Can Song

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Solution of Problem 2:

First we install and read three packages related to outlier detection mentioned in Practice 2.

```
library(OutlierDetection)
library(OutliersO3)
## Registered S3 method overwritten by 'GGally':
##
     method from
     +.gg
##
            ggplot2
library(outliers)
```

The data set we use in our project is called "Credit Card Approval". Here we only extract six features and the first 10,000 rows of the first table "application_record.csv" from the original data set.

The features are: gender, number of children, annual income, education level, marital status and ways of living. We choose to ignore the ID of clients and replace this column with indices.

In the following part we show the first six rows of the new table "application1.csv".

```
library(readr)
library(knitr)
options(encoding = "UTF-8")
application1 <- read_csv("E:/MS-WUSTL/SP2022/ESE 527/practice2/application1.csv", show_c
ol types = FALSE)
head(application1)
```

	CODE_GEN <chr></chr>	CNT_CHILD <dbl></dbl>	AMT_INCOME_TO <dbl></dbl>	NAME_EDUCATION_TYPE <chr></chr>
1	М	0	427500	Higher education
2	М	0	427500	Higher education
3	М	0	112500	Secondary / secondary special
4	F	0	270000	Secondary / secondary special
5	F	0	270000	Secondary / secondary special
6	F	0	270000	Secondary / secondary special
6 rows	1-5 of 7 column	S		

Considering that some of the features in the table "application1.csv" are demonstrated by words instead of numbers, we change these columns with scalar numbers.

The features that need changes are: gender, education level, marital status and ways of living.

First we find out how many different values each feature has.

```
gender_val<-unique(application1[,2])</pre>
education val<-unique(application1[,5])
marital val<-unique(application1[,6])</pre>
housing_val<-unique(application1[,7])</pre>
library("plyr")
list1<-list()</pre>
list1[[1]]<-data.frame(t(gender_val))</pre>
list1[[2]]<-data.frame(t(education_val))</pre>
list1[[3]]<-data.frame(t(marital val))</pre>
list1[[4]]<-data.frame(t(housing_val))</pre>
values<-rbind.fill(list1)</pre>
t(values)
```

```
##
      [,1] [,2]
                                            [,3]
## X1 "M"
           "Higher education"
                                            "Civil marriage"
## X2 "F" "Secondary / secondary special" "Married"
## X3 NA
           "Incomplete higher"
                                            "Single / not married"
           "Lower secondary"
## X4 NA
                                            "Separated"
           "Academic degree"
## X5 NA
                                            "Widow"
## X6 NA
                                            NA
           NΑ
##
      [,4]
## X1 "Rented apartment"
## X2 "House / apartment"
## X3 "Municipal apartment"
## X4 "With parents"
## X5 "Co-op apartment"
## X6 "Office apartment"
```

Then we substitute these words with numbers.

For the feature gender, we set 0 for "F" and 1 for "M".

For the education level, we set 1 for "Academic degree", 2 for "Lower secondary", 3 for "Incomplete higher", 4 for "Secondary / secondary special" and 5 for "Higher education".

For the marital status, we set 1 for "Civil marriage", 2 for "Married", 3 for "Single / not married", 4 for "Separated" and 5 for "Widow".

For the ways of living, we set 1 for "Rented apartment", 2 for "House / apartment", 3 for "Municipal apartment", 4 for "With parents", 5 for "Co-op apartment" and 6 for "Office apartment".

```
a<-sub("M", "0", application1$CODE_GENDER)</pre>
b<-sub("F", "1", a)
gender<-as.numeric(b)</pre>
a<-sub("Academic degree", "1", application1$NAME_EDUCATION_TYPE)</pre>
b<-sub("Lower secondary", "2", a)
c<-sub("Incomplete higher", "3", b)
d<-sub("Secondary / secondary special", "4", c)</pre>
e<-sub("Higher education", "5", d)
education <- as. numeric(e)
a<-sub("Civil marriage", "1", application1$NAME_FAMILY_STATUS)</pre>
b<-sub("Married", "2", a)</pre>
c<-sub("Single / not married", "3", b)
d<-sub("Separated", "4", c)</pre>
e<-sub("Widow", "5", d)</pre>
marital<-as.numeric(e)</pre>
a<-sub("Rented apartment", "1", application1$NAME_HOUSING_TYPE)
b<-sub("House / apartment", "2", a)
c<-sub("Municipal apartment", "3", b)
d<-sub("With parents", "4", c)</pre>
e<-sub("Co-op apartment", "5", d)
f<-sub("Office apartment", "6", e)</pre>
housing<-as.numeric(f)
index<-application1$INDEX
num child<-application1$CNT CHILDREN
ann income <- application 1$AMT INCOME TOTAL
newdata<-data.frame(index, gender, num child, ann income, education, marital, housing)
head(newdata)
```

	index <dbl></dbl>	gender <dbl></dbl>	num_child <dbl></dbl>	ann_income <dbl></dbl>	education <dbl></dbl>	marital <dbl></dbl>	housing <dbl></dbl>
1	1	0	0	427500	5	1	1
2	2	0	0	427500	5	1	1
3	3	0	0	112500	4	2	2
4	4	1	0	270000	4	3	2
5	5	1	0	270000	4	3	2
6	6	1	0	270000	4	3	2
6 ro	ws						

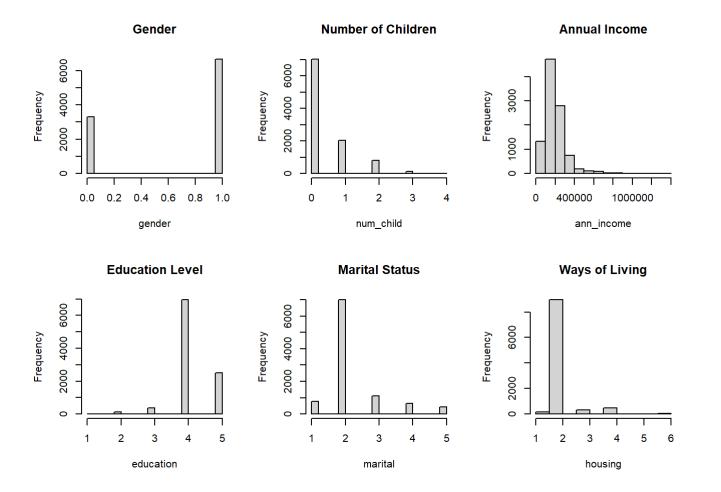
Then we construct the summary of "application1.csv" with the summary function.

```
summary(newdata)
```

```
##
        index
                          gender
                                          num_child
                                                             ann_income
##
                                                :0.0000
    Min.
            :
                     Min.
                             :0.0000
                                        Min.
                                                           Min.
                                                                   :
                                                                      33300
                 1
##
    1st Qu.: 2501
                      1st Qu.:0.0000
                                        1st Qu.:0.0000
                                                           1st Qu.: 121500
##
    Median: 5000
                     Median :1.0000
                                        Median :0.0000
                                                           Median : 171000
##
    Mean
            : 5000
                             :0.6682
                                                :0.4053
                                                                   : 192739
                     Mean
                                        Mean
                                                           Mean
                      3rd Qu.:1.0000
##
    3rd Qu.: 7500
                                        3rd Qu.:1.0000
                                                           3rd Qu.: 225000
                             :1.0000
##
    Max.
            :10000
                     Max.
                                        Max.
                                                :4.0000
                                                           Max.
                                                                   :1350000
##
      education
                         marital
                                          housing
##
    Min.
            :1.000
                     Min.
                             :1.000
                                       Min.
                                               :1.000
##
    1st Qu.:4.000
                      1st Qu.:2.000
                                       1st Qu.:2.000
    Median :4.000
                     Median :2.000
                                       Median :2.000
##
##
    Mean
            :4.184
                     Mean
                             :2.296
                                       Mean
                                               :2.133
##
    3rd Qu.:5.000
                      3rd Qu.:2.000
                                       3rd Qu.:2.000
##
    Max.
            :5.000
                     Max.
                             :5.000
                                       Max.
                                               :6.000
```

The histograms of all feature are hence drawn below.

```
par(mfrow=c(2, 3))
hist(gender, main="Gender")
hist(num_child, main="Number of Children")
hist(ann_income, main="Annual Income")
hist(education, main="Education Level")
hist(marital, main="Marital Status")
hist(housing, main="Ways of Living")
```



par()

```
## $xlog
## [1] FALSE
##
## $ylog
## [1] FALSE
##
## $adj
## [1] 0.5
##
## $ann
## [1] TRUE
##
## $ask
## [1] FALSE
##
## $bg
## [1] "white"
##
## $bty
## [1] "o"
##
## $cex
## [1] 0.66
##
## $cex.axis
## [1] 1
##
## $cex.lab
## [1] 1
##
## $cex.main
## [1] 1.2
##
## $cex.sub
## [1] 1
##
## $cin
## [1] 0.15 0.20
##
## $col
## [1] "black"
##
## $col.axis
## [1] "black"
##
## $col.lab
## [1] "black"
##
## $col.main
## [1] "black"
##
## $col.sub
```

```
## [1] "black"
##
## $cra
## [1] 28.8 38.4
##
## $crt
## [1] 0
##
## $csi
## [1] 0.132
##
## $cxy
## [1]
         0.5346771 1509.6144937
##
## $din
## [1] 6.999999 4.999999
##
## $err
## [1] 0
##
## $family
## [1] ""
##
## $fg
## [1] "black"
##
## $fig
## [1] 0.6666667 1.0000000 0.0000000 0.5000000
##
## $fin
## [1] 2.333333 2.500000
##
## $font
## [1] 1
##
## $font.axis
## [1] 1
##
## $font.lab
## [1] 1
##
## $font.main
## [1] 2
##
## $font.sub
## [1] 1
##
## $lab
## [1] 5 5 7
##
## $las
## [1] 0
```

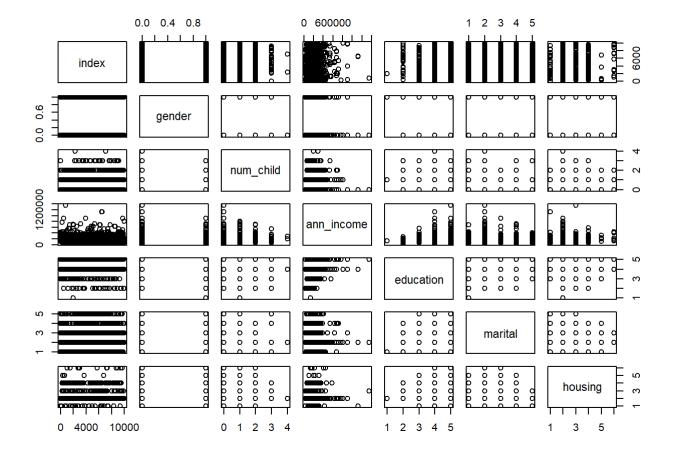
```
##
## $lend
## [1] "round"
##
## $lheight
## [1] 1
##
## $ljoin
## [1] "round"
##
## $lmitre
## [1] 10
##
## $1ty
## [1] "solid"
##
## $1wd
## [1] 1
##
## $mai
## [1] 0.6732 0.5412 0.5412 0.2772
##
## $mar
## [1] 5.1 4.1 4.1 2.1
##
## $mex
## [1] 1
##
## $mfcol
## [1] 2 3
##
## $mfg
## [1] 2 3 2 3
##
## $mfrow
## [1] 2 3
##
## $mgp
## [1] 3 1 0
##
## $mkh
## [1] 0.001
##
## $new
## [1] FALSE
##
## $oma
## [1] 0 0 0 0
##
## $omd
## [1] 0 1 0 1
##
```

```
## $omi
## [1] 0 0 0 0
##
## $page
## [1] TRUE
##
## $pch
## [1] 1
##
## $pin
## [1] 1.514933 1.285600
##
## $plt
## [1] 0.2319429 0.8812000 0.2692800 0.7835200
##
## $ps
## [1] 12
##
## $pty
## [1] "m"
##
## $smo
## [1] 1
##
## $srt
## [1] 0
##
## $tck
## [1] NA
##
## $tcl
## [1] -0.5
##
## $usr
          0.8 6.2 -359.4 9344.4
## [1]
##
## $xaxp
## [1] 1 6 5
##
## $xaxs
## [1] "r"
##
## $xaxt
## [1] "s"
##
## $xpd
## [1] FALSE
##
## $yaxp
          0 8000
## [1]
##
## $yaxs
```

```
## [1] "r"
##
## $yaxt
## [1] "s"
##
## $ylbias
## [1] 0.2
```

We coud also get the matrix of scatterplots related to the "application1.csv", which is shown below.

```
pairs(newdata)
```



1.-Statistical Tests based Approaches:

a) Dixon test (small sample size)

Here we test the first 30 rows of the feature "Annual Income".

```
x<-newdata[1:30,4]</pre>
dixon.test(x,type=0,opposite=TRUE)
```

```
##
##
   Dixon test for outliers
##
## data: x
## Q = 0, p-value < 2.2e-16
## alternative hypothesis: lowest value 112500 is an outlier
```

Since the data set we use in our project is really large, it is obvious that it would not fit the Dixon test which is fro small sample size. We would not use this method for our data set.

b) Normalscore (Deviation with respect to the mean)

```
x<-newdata[,2:7]</pre>
#scores(X, type="z", prob=0.95)
#Displaying first 10 scores
scores(x,type="z",prob=0.95)[1:10,]
```

	gender < g >	num_child <lgl></lgl>	ann_income <lgl></lgl>	education <lgl></lgl>	marital <lgl></lgl>	housing <lgl></lgl>
1	FALSE	FALSE	TRUE	FALSE	FALSE	TRUE
2	FALSE	FALSE	TRUE	FALSE	FALSE	TRUE
3	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
4	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
5	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
6	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
7	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
8	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE
9	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE
10	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE
1-10 o	f 10 rows					

In the first 10 rows, the outliers are the first two values of ann_income, the last three values of marital ans the first two values of housing.

c) Median Absolute Deviation (Deviation with respect to the median)

```
x < -newdata[, 2:7]
#scores(X, type="mad", prob=0.95)
#Displaying first 10 scores
scores(x,type="mad",prob=0.95)[1:10,]
```

gender	num_child	ann_income	education	marital	housing
<lgl></lgl>	<lgl></lgl>	<lgl></lgl>	<lgl></lgl>	<lgl></lgl>	<lgl></lgl>

	gender < g >	num_child <lgl></lgl>	ann_income <lgl></lgl>	education <lgl></lgl>	marital <lgl></lgl>	housing < g >
1	TRUE	NA	TRUE	TRUE	TRUE	TRUE
2	TRUE	NA	TRUE	TRUE	TRUE	TRUE
3	TRUE	NA	FALSE	NA	NA	NA
4	NA	NA	FALSE	NA	TRUE	NA
5	NA	NA	FALSE	NA	TRUE	NA
6	NA	NA	FALSE	NA	TRUE	NA
7	NA	NA	FALSE	NA	TRUE	NA
8	NA	NA	FALSE	TRUE	TRUE	NA
9	NA	NA	FALSE	TRUE	TRUE	NA
10	NA	NA	FALSE	TRUE	TRUE	NA
1-10 c	of 10 rows					

Since there are null values in the test results, we could conculde that the MAD method is not suitable for our data set of credit crad approval.

d) Interquantile range score

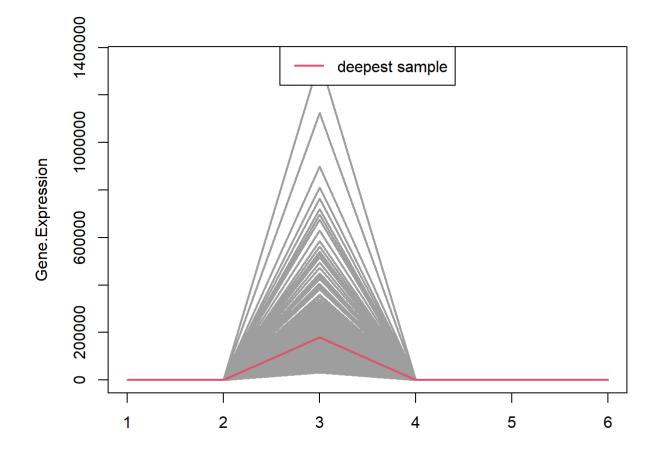
```
x<-newdata[,2:7]</pre>
#scores(X, type="iqr", lim=1)
#Displaying first 10 scores
scores(x,type="iqr",lim=1)[1:10,]
```

	gender <lgl></lgl>	num_child <lgl></lgl>	ann_income <lgl></lgl>	education <lgl></lgl>	marital <lgl></lgl>	housing <lgl></lgl>
	<igi></igi>	<i i=""></i>	<igi></igi>	<igi></igi>	<igi></igi>	<iyi></iyi>
1	FALSE	FALSE	TRUE	FALSE	TRUE	TRUE
2	FALSE	FALSE	TRUE	FALSE	TRUE	TRUE
3	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
4	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE
5	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE
6	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE
7	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE
8	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE
9	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE
10	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE

In the first ten rows, the outliers are: the first two values of ann_income and housing, all values of marital except the ninth value.

2. Depth-based Approach:

```
x<-newdata[,2:7]</pre>
depthout(x,cutoff=0.05)
```



		oservations				
#	_	_	ann_income		marital	housing
# 1	0	0	427500	5	1	1
# 2	0	0	427500	5	1	1
# 78	1	0	247500	5	4	1
# 79	1	0	247500	5	4	1
# 80	1	0	247500	5	4	1
# 81	1	0	247500	5	4	1
# 217	1	0	255150	3	1	1
# 218	1	0	255150	3	1	1
# 219	1	0	255150	3	1	1
# 220	1	0	255150	3	1	1
# 221	1	0	255150	3	1	1
# 222	1	0	255150	3	1	1
# 250	1	0	270000	3	1	3
# 251	1	0	270000	3	1	3
¥ 252	1	0	270000	3	1	3
£ 285	1	0	157500	5	4	4
£ 286	1	0	157500	5	4	4
≠ 287	1	0	157500	5	4	4
# 288	1	0	157500	5	4	4
# 289	1	0	157500	5	4	4
# 290	1	0	157500	5	4	4
# 291	1	0	157500	5	4	4
# 292	1	0	157500	5	4	4
# 293	1	0	157500	5	4	4
# 294	1	0	157500	5	4	4
# 295	1	0	157500	5	4	4
# 296	1	0	157500	5	4	4
# 297	1	0	157500	5	4	4
# 298	1	0	157500	5	4	4
# 299	1	0	157500	5	4	4
# 338	0	0	229500	3	2	5
# 339	0	0	229500	3	2	5
# 340	0	0	229500	3	2	5
# 341	0	0	229500	3	2	5
# 342	0	0	229500	3	2	5
# 343	0	0	229500	3	2	5
# 344	0	0	229500	3	2	5
# 345	0	0	229500	3	2	5
# 394	1	0	74250	5	4	3
# 395	1	0	74250	5	4	3
# 396	1	0	74250	5	4	3
# 415	0	0	337500	5	2	4
# 416	0	0	337500	5	2	4
# 417	0	0	337500	5	2	4
# 418	0	0	337500	5	2	4
# 419	0	0	337500	5	2	4
# 530 # 531	1	1	76500 76500	5	1	2
# 531 " 532	1	1	76500	5	1	2
# 532	1	1	76500	5	1	2
# 533	1	1	76500	5	1	2

						_	
##	534	1	1	76500	5	1	2
##	535	1	1	76500	5	1	2
##	555	0	0	108000	4	3	5
##	556	0	0	108000	4	3	5
##	561	0	0	360000	5	2	3
##	562	0	0	360000	5	2	3
##	642	0	1	112500	4	4	5
##	643	0	1	112500	4	4	5
##	793	0	0	1350000	5	2	3
##	794	0	0	1350000	5	2	3
##	795	0	0	1350000	5	2	3
##	796	0	0	1350000	5	2	3
##	797	0	0	1350000	5	2	3
##	798	0	0	1350000	5	2	3
##	799	0	0	1350000	5	2	3
##	864	0	2	445500	5	2	3
##	865	0	2	445500	5	2	3
##	929	0	0	360000	4	4	4
##	930	0	0	360000	4	4	4
##	931	0	0	360000	4	4	4
##	932	0	0	360000	4	4	4
##	933	0	0	360000	4	4	4
	934	0	0	360000	4	4	4
##	935	0	0	360000	4	4	4
##	936	0	0	360000	4	4	4
	937	0	0	360000	4	4	4
##	938	0	0	360000	4	4	4
##	939	0	0	225000	5	1	1
	940	0	0	225000	5	1	1
##	941	0	0	225000	5	1	1
##	942	0	0	225000	5	1	1
##	943	0	0	225000	5	1	1
	1059	1	1	112500	3	1	2
	1060	1	1	112500	3	1	2
	1061	1	1	112500	3	1	2
	1062				3	1	
	1062	1	1 1	112500 112500	3	1	2 2
##		1	1	112500	3	1	2
	1065	1	1	112500	3	1	2
	1003		0	99000	5	3	
		1					4
	1073	1	0	99000	5	3	4
	1133	1	0	112500	3	3	4
	1228	0	0	135000	2	2	4 4
	1229	0		135000			
	1230 1231	0	0	135000 135000	2	2	4 4
	1232	0	0	135000	2	2	4
	1233	0	0	135000	2		4
	1234	0	0	135000	2	2	4
	1235 1236	0	0	135000	2	2	4
		0	0	135000		2	4
##	1237	0	0	135000	2	۷	4

						-	
##	1277	0	1	562500	3	2	2
##	1278	0	1	562500	3	2	2
##	1279	0	1	562500	3	2	2
##	1280	0	1	562500	3	2	2
##	1281	0	1	562500	3	2	2
##	1282	0	1	562500	3	2	2
##	1283	0	1	562500	3	2	2
##	1284	0	1	562500	3	2	2
##	1285	0	1	562500	3	2	2
##	1286	0	1	562500	3	2	2
##	1287	0	1	562500	3	2	2
##	1288	0	1	562500	3	2	2
##	1289	0	1	562500	3	2	2
##	1290	0	1	562500	3	2	2
##	1291	0	1	562500	3	2	2
##	1292	0	1	562500	3	2	2
##	1293	0	1	562500	3	2	2
##	1294	0	1	562500	3	2	2
##	1295	0	1	562500	3	2	2
##	1296	0	1	562500	3	2	2
##	1290	0	1	562500	3	2	2
##	1298	0	1	562500	3	2	2
##	1299	0	1	562500	3	2	2
##	1300	0	1	562500	3	2	2
##	1368		1	180000	3	2	4
##	1369	0	1	180000	3	2	4
##	1503 1516	0	1	90000 450000	4 5	2	1
##	1516					2	
## ##	1517	0	1	450000	5 5	2	6 6
				450000			
## ##	1519 1520	0	1	450000 450000	5	2	6 6
	1521	0	1	450000	5	2	6
##	1522	0	1	450000	5	2	6
	1523	0	1	450000	5	2	6
	1524	0	1	450000	5	2	6
	1525	0	1	450000	5	2	6
		0	1	450000	5	2	6
	1527	0	1	450000	5	2	6
	1528	0	1	450000	5	2	6
	1529	0	1	450000	5	2	6
	1677	0	0	202500	3	1	4
	1678	0	0	202500	3	1	4
		0	0	202500	3	1	4
	1680	0	0	202500	3	1	4
##	1868	1	0	94500	4	5	1
	1869	1	0	94500	4	5	1
	1928	1	0	121500	5	3	1
##	1929	1	0	121500	5	3	1
	1930	1	0	121500	5	3	1
	1958	0	2	99000	4	2	4
##	1959	0	2	99000	4	2	4

					-	
## 1960	0	2	99000	4	2	4
## 1961	0	2	99000	4	2	4
## 1962	0	2	99000	4	2	4
## 1963	0	2	99000	4	2	4
## 1964	0	2	99000	4	2	4
## 1967	1	1	135000	1	1	2
## 1968	1	1	135000	1	1	2
## 1969	1	1	135000	1	1	2
## 1982	0	2	697500	5	4	2
## 1983	0	2	697500	5	4	2
## 2099	1	2	112500	5	1	2
## 2100	1	2	112500	5	1	2
## 2131	1	0	135000	3	3	1
## 2132	1	0	135000	3	3	1
## 2162	0	1	472500	5	2	4
## 2210	1	2	67500	3	2	4
## 2211	1	2	67500	3	2	4
## 2212	1	2	67500	3	2	4
## 2213	1	2	67500	3	2	4
## 2500	0	2	337500	3	2	2
## 2501	0	2	337500	3	2	2
## 2502	0	2	337500	3	2	2
## 2633	1	1	135000	4	1	4
## 2634	1	1	135000	4	1	4
## 2635	1	1	135000	4	1	4
## 2636	1	1	135000	4	1	4
## 2637	1	1	135000	4	1	4
## 2638	1	1	135000	4	1	4
## 2639	1	1	135000	4	1	4
## 2640	1	1	135000	4	1	4
## 2641	1	1	135000	4	1	4
## 2644	1	1	315000	5	5	2
## 2645	1	1	315000	5	5	2
## 2646	1	1	315000	5	5	2
## 2647	1	1	315000	5	5	2
## 2648	1	1	315000	5	5	2
## 2649	1	1	315000	5	5	2
## 2650	1	1	315000	5	5	2
## 2651	1	1	315000	5	5	2
## 2652	1	1	315000	5	5	2
## 2652	1	1	315000	5	5	2
## 2654	1	1	315000	5	5	2
## 2655	1	1	315000	5	5	2
## 2656	1	1	315000	5	5	2
## 2954	1	0	315000	5	4	4
## 2955	1	0	315000	5	4	4
## 3429	0	1	216000	5	5	2
## 3429	0	1	216000	5	5	2
## 3430	0	1	216000	5	5	2
## 3431	0	1	216000	5	5	2
## 3432	0	0	135000	3	3	4
## 3584	0	0	135000	3	3	4
"" 3304	U	U	133000	3	3	7

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## 3652	0	0	112500	4	1	4
## 3677	1	2	202500	4	1	5
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## 3825	0	2	225000	4	2	1
## 3826	0	2	225000	4	2	1
## 3827	0	2	225000	4	2	1
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## 3829	0	2	225000	4	2	1
## 3830	0	2	225000	4	2	1
## 3831	0	2	225000	4	2	1
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## 3833	0	2	225000	4	2	1
## 3834	0	2	225000	4	2	1
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## 5471	1	1	225000	4	1	3
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## 5784	0	0	360000	3	3	3
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## 6033	1	0	135000	3	3	3
## 6034	1	0	135000	3	3	3
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##	6113	0	1	360000	5	1	2
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##				315000			
## ##	6249 6250	0	0	315000	4	3	3
				315000			
## ##	6251 6252	0	0	315000	4	3	3
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	6445	1	0	135000	3	3	3
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##	6540	0	3	225000	4	2	3

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##	6541	0	3	225000	4	2	3
##	6571	0	1	283500	5	2	3
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## 7367	0	0	99000	3	1	1
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## 7369	0	0	99000	3	1	1
## 7418	0	0	225000	5	3	4
## 7419	0	0	225000	5	3	4
## 7420	0	0	225000	5	3	4
## 7421	0	0	225000	5	3	4
## 7422	0	0	225000	5	3	4
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## 7424	0	0	225000	5	3	4
## 7424	0	0	225000	5	3	4
## 7423	0	1	270000	5	2	1
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## 7485	0	1	270000	5	2	1
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## 7639	0	3	126000	4	1	4
## 7640	0	3	126000	4	1	4
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## 7643	0	3	126000	4	1	4
## 7644	0	3	126000	4	1	4
## 7645	0	3	126000	4	1	4
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## 7659	0	0	270000	2	4	2
## 7660	0	0	270000	2	4	2
## 7661	0	0	270000	2	4	2
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## 7745	1	2	81000	2	3	2
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## 7795	0	2	675000	5	2	2
## 7796	0	2	675000	5	2	2
## 7797	0	2	675000	5	2	2
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##	7798	0	2	675000	5	2	2
##	7799	0	2	675000	5	2	2
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##	7801	0	2	675000	5	2	2
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##	8317	0	0	135000	5	3	4
##	8318	0	0	135000	5	3	4
##	8425	0	1	225000	5	2	3
##	8426	0	1	225000	5	2	3
##	8606	0	0	202500	3	3	4
##	8661	0	1	238500	5	2	4
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##	8664	0	1	238500	5	2	4
##	8665	0	1	238500	5	2	4
##	8666	0	1	238500	5	2	4
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##	8969	0	0	405000	5	2	6
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##	8972	0	0	405000	5	2	6
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##	9310	1	2	270000	5	4	4
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##	9312	1	2	270000	5	4	4

##				_					_			_				
	9313	-	L	2	2	27000			5	4		4				
##	9314	-	L	2	2	27000	00		5	4		4				
##	9315	-	l	2	2	27000	00		5	4		4				
##	9316	-	l	2	2	27000	00		5	4		4				
##	9317	-	l	2	2	27000	00		5	4		4				
##	9318	-	l	2	2	27000	00		5	4		4				
	9319	-	l		2	27000			5	4		4				
	9320		- 1		2	27000			5	4		4				
	9321					27000										
			1		2				5	4		4				
	9478)			9000			5	3		4				
	9479		l		L	15750			2	1		2				
	9480	-	L]	L	15750			2	1		2				
##	9481	-	L	1	L	15750			2	1		2				
##	9482	-	l	1	L	15750	00		2	1		2				
##	9483	-	L	1	L	15750	00		2	1		2				
##	9504	:	l	1	L	20250	00		5	1		4				
##	9505	-	l	1	L	20250	00		5	1		4				
##	9506	:	l	1	L	20250	00		5	1		4				
##	9507	-	l	1	L	20250	00		5	1		4				
	9508	-	l	1	L	20250			5	1		4				
	9509		- 1		L	20250			5	1		4				
	9510		- l		- L	20250			5	1		4				
	9562		l		L	40500			5	5		2				
	9563															
			1		<u>L</u>	40500			5	5		2				
	9564		l		L	40500			5	5		2				
	9663)		2	40500			4	2		6				
	9664	()		2	40500			4	2		6				
	9885	()	2	2	9000	0 (4	2		3				
##																
##	\$`Loca	ation	of Ou		<u>-</u> `											
##	\$`Loca	1	2	78	79	80	81	217	218	219	220	221	222	250	251	252
						80 289	81 290	217 291	218 292	219 293	220 294	221 295	222 296	250 297	251 298	252 299
##	[1]	1	2	78	79											
##	[1] [16] [31]	1 285	2 286	78 287	79 288	289	290	291	292	293	294	295	296	297	298	299
## ## ##	[1] [16] [31] [46]	1 285 338	2 286 339	78 287 340	79 288 341	289 342	290 343	291 344	292 345 555	293 394 556	294 395 561	295 396	296 415	297 416 643	298 417	299 418
## ## ##	[1] [16] [31] [46] [61]	1 285 338 419	2 286 339 530	78 287 340 531	79 288 341 532	289 342 533	290 343 534	291 344 535 865	292 345 555 929	293 394 556 930	294 395 561 931	295 396 562 932	296 415 642	297 416 643 934	298 417 793 935	299 418 794 936
## ## ## ##	[1] [16] [31] [46] [61] [76]	1 285 338 419 795 937	2 286 339 530 796 938	78 287 340 531 797	79 288 341 532 798 940	289 342 533 799 941	290 343 534 864 942	291 344 535 865 943	292 345 555 929 1059	293 394 556 930 1060	294 395 561 931 1061	295 396 562 932 1062	296 415 642 933 1063	297 416 643 934 1064	298 417 793 935 1065	299 418 794 936 1072
## ## ## ## ##	[1] [16] [31] [46] [61] [76]	1 285 338 419 795 937 1073	2 286 339 530 796 938 1133	78 287 340 531 797 939 1228	79 288 341 532 798 940 1229	289 342 533 799 941 1230	290 343 534 864 942 1231	291 344 535 865 943 1232	292 345 555 929 1059 1233	293 394 556 930 1060 1234	294 395 561 931 1061 1235	295 396 562 932 1062 1236	296 415 642 933 1063 1237	297 416 643 934 1064 1277	298 417 793 935 1065 1278	299 418 794 936 1072 1279
## ## ## ## ## ##	[1] [16] [31] [46] [61] [76] [91]	1 285 338 419 795 937 1073 1280	2 286 339 530 796 938 1133 1281	78 287 340 531 797 939 1228	79 288 341 532 798 940 1229	289 342 533 799 941 1230 1284	290 343 534 864 942 1231 1285	291 344 535 865 943 1232 1286	292 345 555 929 1059 1233 1287	293 394 556 930 1060 1234 1288	294 395 561 931 1061 1235 1289	295 396 562 932 1062 1236 1290	296 415 642 933 1063 1237 1291	297 416 643 934 1064 1277 1292	298 417 793 935 1065 1278 1293	299 418 794 936 1072 1279
## ## ## ## ## ##	[1] [16] [31] [46] [61] [76] [91] [106] [121]	1 285 338 419 795 937 1073 1280 1295	2 286 339 530 796 938 1133 1281 1296	78 287 340 531 797 939 1228 1282 1297	79 288 341 532 798 940 1229 1283 1298	289 342 533 799 941 1230 1284 1299	290 343 534 864 942 1231 1285 1300	291 344 535 865 943 1232 1286 1368	292 345 555 929 1059 1233 1287 1369	293 394 556 930 1060 1234 1288 1503	294 395 561 931 1061 1235 1289 1516	295 396 562 932 1062 1236 1290 1517	296 415 642 933 1063 1237 1291 1518	297 416 643 934 1064 1277 1292 1519	298 417 793 935 1065 1278 1293 1520	299 418 794 936 1072 1279 1294 1521
## ## ## ## ## ##	[1] [16] [31] [46] [61] [76] [91] [106] [121] [136]	1 285 338 419 795 937 1073 1280 1295	2 286 339 530 796 938 1133 1281 1296 1523	78 287 340 531 797 939 1228 1282 1297 1524	79 288 341 532 798 940 1229 1283 1298 1525	289 342 533 799 941 1230 1284 1299	290 343 534 864 942 1231 1285 1300 1527	291 344 535 865 943 1232 1286 1368 1528	292 345 555 929 1059 1233 1287 1369 1529	293 394 556 930 1060 1234 1288 1503 1677	294 395 561 931 1061 1235 1289 1516	295 396 562 932 1062 1236 1290 1517 1679	296 415 642 933 1063 1237 1291 1518 1680	297 416 643 934 1064 1277 1292 1519 1868	298 417 793 935 1065 1278 1293 1520 1869	299 418 794 936 1072 1279 1294 1521 1928
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## [331] 7085 7086 7138 7139 7140 7141 7142 7143 7144 7145 7146 7147 7148 7186 7187
## [346] 7188 7189 7190 7191 7192 7193 7225 7226 7227 7228 7229 7230 7231 7232 7233
## [361] 7234 7302 7303 7304 7305 7306 7307 7367 7368 7369 7418 7419 7420 7421 7422
## [376] 7423 7424 7425 7483 7484 7485 7486 7639 7640 7641 7642 7643 7644 7645 7646
## [391] 7647 7648 7656 7657 7658 7659 7660 7661 7662 7663 7664 7665 7666 7667 7668
## [406] 7669 7743 7744 7745 7793 7794 7795 7796 7797 7798 7799 7800 7801 7802 7803
## [421] 7804 8315 8316 8317 8318 8425 8426 8606 8661 8662 8663 8664 8665 8666 8667
## [436] 8668 8669 8670 8671 8706 8707 8708 8709 8710 8711 8712 8713 8714 8715 8716
## [451] 8735 8736 8737 8738 8739 8969 8970 8971 8972 8975 8976 8977 8978 9310 9311
## [466] 9312 9313 9314 9315 9316 9317 9318 9319 9320 9321 9478 9479 9480 9481 9482
## [481] 9483 9504 9505 9506 9507 9508 9509 9510 9562 9563 9564 9663 9664 9885
##
## $`Outlier Probability`
```

With the threshold as 0.05, there are 493 outliers.

3. Deviation-based Approaches

4. Distance-based Approaches

a) Outlier detection using Mahalanobis Distance

x < -newdata[,2:7]maha(x,cutoff=0.9)

		oservation				
##	gender	num_child	ann_income		marital	housing
## 1	0	0	427500	5	1	1
' # 2	0	0	427500	5	1	1
# 28	0	3	270000	4	2	2
# 29	0	3	270000	4	2	2
# 77	1	0	315000	4	5	2
# 217	1	0	255150	3	1	1
# 218	1	0	255150	3	1	1
# 219	1	0	255150	3	1	1
# 220	1	0	255150	3	1	1
# 221	1	0	255150	3	1	1
# 222	1	0	255150	3	1	1
# 250	1	0	270000	3	1	3
# 251	1	0	270000	3	1	3
# 252	1	0	270000	3	1	3
# 255	0	1	180000	4	2	4
# 268		1	765000	5	2	2
# 269		1	765000	5	2	2
" = 33 # 270		1	765000	5	2	2
" <u>-</u> .	0	1	765000	5	2	2
# 277		2	157500	4	2	4
" <u>2</u> 77 # 278		2	157500	4	2	4
# 279		2	157500	4	2	4
# 215 # 280		2	157500	4	2	4
# 281 # 205		2	157500	4	2	4
# 285 " 226		0	157500	5	4	4
# 286 # 287		0	157500	5	4	4
# 287		0	157500	5	4	4
# 288		0	157500	5	4	4
# 289	1	0	157500	5	4	4
# 290		0	157500	5	4	4
# 291		0	157500	5	4	4
# 292		0	157500	5	4	4
# 293		0	157500	5	4	4
# 294	1	0	157500	5	4	4
# 295	1	0	157500	5	4	4
# 296	1	0	157500	5	4	4
# 297	1	0	157500	5	4	4
# 298	1	0	157500	5	4	4
# 299	1	0	157500	5	4	4
# 300	0	0	382500	4	5	2
# 301	0	0	382500	4	5	2
# 302	0	0	382500	4	5	2
# 303	0	0	382500	4	5	2
# 304	0	0	382500	4	5	2
# 305		0	382500	4	5	2
# 306		0	382500	4	5	2
" 300 # 307		0	382500	4	5	2
# 307 # 338		0	229500	3	2	5
# 330 # 339		0	229500	3	2	5
## 340	0	0	229500	3	2	5

## 241	0	0	220500	2	2	_
## 341	0	0	229500	3	2	5
## 342	0	0	229500	3	2	5
## 343	0	0	229500	3	2	5
## 344	0	0	229500	3	2	5
## 345	0	0	229500	3	2	5
## 389	0	0	157500	3	2	4
## 390	0	0	157500	3	2	4
## 391	0	0	157500	3	2	4
## 392	0	0	157500	3	2	4
## 393	0	0	157500	3	2	4
## 394	1	0	74250	5	4	3
## 395	1	0	74250	5	4	3
## 396	1	0	74250	5	4	3
## 409	1	0	202500	5	2	4
## 410	1	0	202500	5	2	4
## 411	1	0	202500	5	2	4
## 412	1	0	202500	5	2	4
## 413	1	0	202500	5	2	4
## 415	0	0	337500	5	2	4
## 416	0	0	337500	5	2	4
## 417	0	0	337500	5	2	4
## 418	0	0	337500	5	2	4
## 419	0	0	337500	5	2	4
## 487	0	0	180000	2	2	2
## 488		0	180000	2	2	2
	0				2	
## 489	0	0	180000	2		2
## 490	0	0	180000	2	2	2
## 493	1	0	900000	5	3	2
## 494	1	0	900000	5	3	2
## 555	0	0	108000	4	3	5
## 556	0	0	108000	4	3	5
## 559	0	0	198000	4	3	4
## 560	0	0	198000	4	3	4
## 577	0	0	81000	4	2	4
## 578	0	0	81000	4	2	4
## 579	0	0	81000	4	2	4
## 638	0	2	180000	3	2	2
## 639	0	2	180000	3	2	2
## 640	0	2	180000	3	2	2
## 641	0	2	180000	3	2	2
## 642	0	1	112500	4	4	5
## 643	0	1	112500	4	4	5
## 746	0	0	202500	4	3	4
## 747	0	0	202500	4	3	4
## 773	1	0	90000	4	5	2
## 774	1	0	90000	4	5	2
## 775	1	0	90000	4	5	2
## 776	1	0	90000	4	5	2
## 777	1	0	90000	4	5	2
## 778	1	0	90000	4	5	2
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## ##	1599 1600	1	0	65250 65250	4	5 5	2
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	2044 2063	0	1	675000 225000	5 5	2	2
		1		675000			
	2068 2069	1	0	675000	4	1	2
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	2213	1	2	67500	3	2	4
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	2245	1	0	189000	3	5	2
	2246	1	0	189000	3	5	2
	2247	1	0	189000	3	5	2
	2248	1	0	189000	3	5	2
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	2250	1	0	189000	3	5	2
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#	# 2281	1	0	121500	4	2	4
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#	# 2321	0	0	135000	4	1	4
#	# 2331	0	4	292500	4	2	2
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#	# 2358	0	0	135000	4	2	4
#	# 2437	1	3	126000	5	2	2
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	# 2440	1	3	126000	5	2	2
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## 2644	1	1	315000	5	5	2
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## 2655	1	1	315000	5	5	2
## 2656	1	1	315000	5	5	2
## 2700	1	2	135000	5	4	2
## 2723	1	0	67500	4	3	4
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## 2726	1	0	67500	4	3	4
## 2811	0	0	135000	4	2	6
## 2812	0	0	135000	4	2	6
## 2813	0	0	135000	4	2	6
## 2830	1	0	216000	5	2	4
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## 2942	0	3	135000	4	2	2
## 2943	0	3	135000	4	2	2
## 2944	0	3	135000	4	2	2
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## 3065	1	0	67500	4	5	2
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## 3089	1	0	225000	5	5	2
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## 3091	1	0	225000	5	5	2
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## 3111	1	1	157500	5	2	4
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## 3197	1	1	720000	5	2	2
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## 3218	0	0	225000	4	2	4

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## 3297	0	0	247500	5	2	4
## 3298	0	0	247500	5	2	4
## 3299	0	0	247500	5	2	4
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## 3301	0	0	247500	5	2	4
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## 3385	0	3	360000	4	2	2
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	4153	1	0	270000	4	5	2
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## 5314 0 1 112500 3 2 4 ## 5315 0 1 112500 3 2 4 ## 5335 1 3 81000 4 2 2 ## 5336 1 3 81000 4 2 2 ## 5337 1 3 81000 4 2 2 ## 5338 1 3 81000 4 2 2 ## 5347 1 0 112500 2 1 2 ## 5349 1 0 112500 2 1 2 ## 5350 1 0 112500 2 1 2 ## 5350 1 0 112500 2 1 2 ## 5351 1 0 112500 2 1 2 ## 5351 1 0 112500 2 1 2 ## 5352 1 0 112500 2 1 2 ## 5333 1 0 112500 2 1 2 ## 5333 1 0 12500 2 1 2 ## 5353 1 0 112500 5 1 2 ## 5351 1 0 112500 5 2 1 2 ## 5352 1 0 112500 5 2 1 2 ## 5353 1 0 112500 5 2 1 2 ## 5353 1 0 112500 5 2 1 2 ## 5353 1 0 112500 5 2 1 2 ## 5380 1 0 720000 5 4 2 ## 5380 1 0 720000 5 4 2 ## 5381 1 0 720000 5 4 2 ## 5382 1 0 720000 5 4 2 ## 5384 1 0 720000 5 4 2 ## 5385 1 0 112500 3 5 2 ## 5386 1 0 112500 3 5 2 ## 5386 1 0 112500 3 5 2 ## 5387 1 0 112500 3 5 2 ## 5388 1 0 112500 3 5 2 ## 5388 1 0 112500 3 5 2 ## 5389 1 0 112500 3 5 2 ## 5389 1 0 112500 3 5 2 ## 5390 1 0 112500 3 5 2 ## 5390 1 0 112500 3 5 2 ## 5390 1 0 112500 3 5 2 ## 5390 1 0 112500 3 5 2 ## 5390 1 0 112500 3 5 2 ## 5390 1 0 112500 3 5 2 ## 5390 1 0 112500 3 5 2 ## 5390 1 0 112500 3 5 2 ## 5390 1 0 112500 3 5 2 ## 5390 1 0 112500 3 5 2 ## 5390 1 0 112500 3 5 2 ## 5390 1 0 112500 3 5 2 ## 5390 1 0 112500 3 5 2 ## 5390 1 0 112500 3 5 2 ## 5390 1 0 112500 3 5 2 ## 5390 1 0 12500 3 5 2 ## 5390 1 0 12500 3 5 2 ## 5390 1 0 12500 3 5 2 ## 5390 1 0 12500 3 5 2 ## 5390 1 0 12500 3 5 2 ## 5390 1 0 12500 3 5 2 ## 5390 1 0 12500 3 5 2 ## 5390 1 0 12500 3 5 2 ## 5390 1 0 12500 3 5 2 ## 5390 1 0 12500 3 5 2 ## 5390 1 0 12500 3 5 2 ## 5390 1 0 12500 4 3 4 ## 5400 1 0 270000 4 3 4 ## 5400 1 0 270000 4 3 4 ## 5400 1 0 270000 4 3 4 ## 5401 1 0 270000 4 3 4 ## 5402 1 0 270000 4 3 4 ## 5403 1 0 270000 4 3 4 ## 5400 1 3 126000 4 2 2 ## 5481 1 3 126000 4 2 2 ## 5481 1 3 126000 4 2 2 ## 5481 1 3 126000 4 2 2		0	1			2	
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## 5500	1	0	157500	4	5	3
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## 5589	0	0	180000	2	3	2
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##
   [946] 0.9999200 0.9841302 0.9841302 0.9841302 0.9841302 0.9841302 0.9841302
##
##
   [953] 0.9936480 0.9936480 0.9936480 0.9936480 0.9936480 0.9936480 0.9936480
##
   [960] 0.9936480 0.9936480 0.9936480 0.9936480 0.9831715 0.9831715 0.9831715
   [967] 0.9831715 0.9831715 0.9831715 0.9831715 1.0000000 1.0000000
##
   [974] 1.0000000 0.9470444 0.9470444 0.9470444 0.9470444 0.9470444 0.9470444
##
   [981] 0.9470444 0.9793979 0.9793979 0.9793979 0.9793979 0.9793979
##
   [988] 0.9793979 0.9793979 0.9793979 0.9793979 0.9549072 0.9549072 0.9549072
##
   [995] 0.9970776 0.9970776 0.9970776 0.9970776 0.9970776 0.9931052
##
## [1002] 0.9931052 0.9931052 0.9931052 0.9931052 0.9931052 1.0000000 0.9700792
## [1009] 0.9700792 0.9700792 0.9453778 0.9453778 0.9453778 0.9870410 0.9870410
## [1016] 0.9870410 0.9870410 0.9870410 0.9870410 0.9870410 0.9870410 0.9870410 0.9617751
## [1023] 0.9617751 0.9472971 0.9472971 0.9472971 0.9472971 0.9472971 0.9472971 0.9472971
## [1030] 0.9472971 0.9472971 0.9830006 0.9830006 0.9830006 0.9439208 0.9439208
## [1037] 0.9439208 0.9439208 0.9139037 0.9139037 0.9139037 0.9139037 0.9139037
## [1044] 0.9816273 0.9816273 0.9816273 0.9816273 0.9998294 0.9998294 0.9998294
## [1051] 0.9998294 0.9998294 0.9998294 0.9998294 0.9998294 0.9998294 0.9998294
## [1058] 0.9021521 0.9021521 0.9021521 0.9989011 0.9989011 0.9989011 0.9989011
## [1065] 0.9989011 0.9989011 0.9989011 0.9989011 0.9989011 0.9989011 0.9989011
## [1072] 0.9989011 0.9989011 0.9989011 0.9806601 0.9806601 0.9806601 0.9806601
## [1079] 0.9806601 0.9806601 0.9806601 0.9806601 0.9806601 0.9806601 0.9993135
## [1086] 0.9993135 0.9993135 0.9695357 0.9695357 0.9695357 0.9995682 0.9995682
## [1093] 0.9995682 0.9995682 0.9995682 0.9995682 0.9995682 0.9995682 0.9995682
## [1100] 0.9995682 0.9995682 0.9995682 0.9891265 0.9989805 0.9989805 0.9989805
## [1107] 0.9989805 0.9989805 0.9989805 0.9900085 0.9900085 0.9900085 0.9916563
## [1114] 0.9916563 0.9916563 0.9916563 0.9167254 0.9167254 0.9167254 0.9167254 0.9167254
## [1121] 0.9167254 0.9923571 0.9931952 0.9926069 0.9926069 0.9926069 0.9926069
## [1128] 0.9926069 0.9606030 0.9606030 0.9606030 0.9606030 0.9988055 0.9988055
## [1135] 0.9988055 0.9988055 0.9988055 0.9988055 0.9988055 0.9988055 0.9988055
## [1142] 0.9988055 0.9988055 0.9988055 0.9824865 0.9824865 0.9824865 0.9927805
## [1149] 0.9791055 0.9791055 0.9791055 0.9791055 0.9791055 0.9791055 0.9791055
## [1156] 0.9791055 0.9791055 0.9791055 0.9791055 0.9977089 0.9977089 0.9977089
```

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```
## [1163] 0.9977089 0.9977089 0.9977089 0.9977089 0.9977089 0.9977089 0.9977089
## [1170] 0.9977089 0.9922900 0.9922900 0.9922900 0.9922900 0.9922900 1.0000000
## [1177] 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000 1.0000000
## [1184] 0.9917565 0.9917565 0.9917565 0.9917565 0.9917565 0.9917565 0.9917565
## [1191] 0.9633337 0.9633337 0.9633337 0.9922870 0.9922870 0.9936127 0.9936127
## [1198] 0.9936127 0.9936127 0.9936127 0.9936127 0.9936127 0.9936127 0.9857887
## [1205] 0.9857887 0.9857887 0.9543058 0.9543058 0.9543058 0.9543058 0.9850619
## [1212] 0.9850619 0.9850619 0.9850619 0.9850619 0.9850619 0.9850619 0.9850619
## [1219] 0.9850619 0.9850619 0.9850619 1.0000000 1.0000000 1.0000000 1.0000000
## [1226] 0.9821146 0.9804470 0.9804470 0.9804470 0.9804470 0.9915846 0.9915846
## [1233] 0.9915846 0.9915846 0.9997786 0.9997786 0.9997786 0.9997786 0.9997786
## [1240] 0.9997786 0.9997786 0.9998566 0.9998566 0.9998566 0.9998566 0.9998566
## [1247] 0.9998566 0.9998566 0.9998566 0.9998566 0.9998566 0.9998566 0.9998566
## [1254] 0.9998566 0.9816669 0.9816669 0.9816669 0.9993764 0.9993764 0.9993764
## [1261] 0.9993764 0.9993764 0.9993764 0.9993764 0.9993764 0.9993764 0.9993764
## [1268] 0.9993764 0.9993764 0.9656426 0.9656426 0.9656426 1.0000000 1.0000000
## [1275] 1.0000000 1.0000000 1.0000000 0.9946183 0.9973955 0.9973955 0.9973955
## [1282] 0.9973955 0.9973955 0.9915285 0.9915285 0.9915285 0.9915285 0.9915285
## [1289] 0.9915285 0.9915285 0.9439208 0.9439208 0.9439208 0.9439208 0.9439208
## [1296] 0.9439208 0.9439208 0.9439208 0.9894171 0.9894171 0.9894171 0.9501091
## [1303] 0.9501091 0.9501091 0.9501091 0.9501091 0.9501091 1.0000000 1.0000000
## [1310] 0.9999998 0.9999998 0.9999998 0.9999998 0.9999998 0.9352954 0.9352954
## [1317] 0.9352954 0.9352954 0.9352954 0.9352954 0.9352954 0.9352954 0.9563342
## [1324] 0.9563342 0.9563342 0.9563342 0.9563342 0.9563342 0.9920553
## [1331] 0.9920553 0.9920553 0.9920553 0.9920553 0.99999923 0.9999923 0.99999923
## [1338] 0.9884512 0.9884512 0.9884512 0.9884512 0.9884512 0.9884512 0.9884512 0.9884512 0.9884512 O.9884512 O.9884
```

When the threshold is 0.9, there are 1,344 outliers.

b) Outlier detection using k Nearest Neighbours Distance method

```
nn(x,k=4)
```

##	<pre>\$`Outlier</pre>	Observation	ıs`				
##	gende	er num_child	d a	nn_income	education	marital	housing
##	1	0 ()	427500.0	5	1	1
##	2	0 ()	427500.0	5	1	1
##	8	1 ()	283500.0	5	4	2
	9	1 ()	283500.0	5	4	2
	10	1 ()	283500.0	5	4	2
	20	1 ()	130500.0	3	2	2
	21	1 ()	130500.0	3	2	2
	63	1 1	L	211500.0	4	1	2
	64		- L	211500.0	4	1	2
	77)	315000.0	4	5	2
	223	_	2	157500.0	4	3	2
	224	1 2		157500.0	4	3	2
	240)	94500.0	5	2	2
	250)	270000.0	3	1	3
	251)	270000.0	3	1	
	252)	270000.0	3	1	3
						2	
	253		L	450000.0 450000.0	5	2	2
	254	_	L		5		2
	255	•	L	180000.0	4	2	4
	275)	315000.0	5	4	2
	276)	315000.0	5	4	2
	394)	74250.0	5	4	3
	395)	74250.0	5	4	3
	396)	74250.0	5	4	3
	406)	144000.0	4	3	2
	407)	144000.0	4	3	2
	408)	144000.0	4	3	2
	414)	40500.0	4	3	2
	493)	900000.0	5	3	2
	494	_)	900000.0	5	3	2
	555	0 (108000.0	4	3	5
	556	0 (108000.0	4	3	5
	559	0 (198000.0	4	3	4
	560)	198000.0	4	3	4
	561)	360000.0	5	2	3
	562)	360000.0	5	2	3
	575)	270000.0	3	1	2
	576)	270000.0	3	1	2
	642		L	112500.0	4	4	5
	643		L	112500.0	4	4	5
	654)	216000.0	4	2	2
	698)	45000.0	4	4	2
	699)	45000.0	4	4	2
	702	1 ()	112500.0	4	3	1
##	703	1 ()	112500.0	4	3	1
##	740	0 1	L	144000.0	3	2	2
	741	0 1	L	144000.0	3	2	2
##	809	1 ()	135000.0	4	1	4
##	810	1 ()	135000.0	4	1	4
##	864	0 2	2	445500.0	5	2	3

## 865	0	2	445500.0	5	2	3
## 925	0	0	225000.0	5	1	2
## 949	1	2	157500.0	5	2	2
## 950	1	2	157500.0	5	2	2
## 951	1	2	144000.0	4	2	3
## 963	0	0	270000.0	4	3	2
## 963 ## 964	0	0	270000.0	4	3	2
## 1008	1	0	135000.0	3	3	2
## 1009	1	2	99000.0	4	2	2
## 1014	0	0	90000.0	4	1	2
## 1039	0	0	495000.0	5	3	2
## 1040	0	0	495000.0	5	3	2
## 1041	0	0	495000.0	5	3	2
## 1042	0	2	157500.0	4	2	6
## 1043	0	2	157500.0	4	2	6
## 1072	1	0	99000.0	5	3	4
## 1073	1	0	99000.0	5	3	4
## 1079	0	0	85500.0	4	2	2
## 1080	0	0	85500.0	4	2	2
## 1117	1	0	279000.0	5	3	2
## 1123	0	2	157500.0	4	2	3
## 1124	0	2	157500.0	4	2	3
## 1125	0	2	157500.0	4	2	3
## 1133	1	0	112500.0	3	3	4
## 1140	1	2	306000.0	5	2	2
## 1141	1	2	306000.0	5	2	2
## 1142	1	2	306000.0	5	2	2
## 1143	1	0	166500.0	4	2	2
## 1144	1	0	166500.0	4	2	2
## 1145	1	0	166500.0	4	2	2
## 1156	1	1	67500.0	4	2	3
## 1193	0	0	202500.0	2	2	2
## 1194	0	0	202500.0	2	2	2
## 1311	1	0	99000.0	4	3	2
## 1312	1	0	99000.0	4	3	2
## 1313	1	0	99000.0	4	3	2
## 1367	1	0	126000.0	4	3	4
## 1368	0	1	180000.0	3	2	4
## 1369	0	1	180000.0	3	2	4
## 1370	1	0	310500.0	5	3	2
## 1371	1	0	310500.0	5	3	2
## 1374	1	2	67500.0	4	4	2
## 1480	0	0	135000.0	5	1	2
## 1481	0	0	135000.0	5	1	2
## 1482	0	0	135000.0	5	1	2
## 1503	1	1	90000.0	4	4	1
## 1530	1	0	76500.0	4	1	2
## 1531	1	0	76500.0	4	1	2
## 1532	1	0	76500.0	4	1	2
## 1603	1	0	184500.0	4	2	2
## 1638	0	0	180000.0	5	3	2
## 1662	1	2	225000.0	4	1	2

## 1674	0	0	99000.0	4	3	2
## 1675	0	0	99000.0	4	3	2
## 1676	0	0	99000.0	4	3	2
## 1728	1	0	162000.0	4	2	2
## 1729	1	0	162000.0	4	2	2
## 1730	1	0	162000.0	4	2	2
## 1744	1	0	135000.0	5	2	4
## 1745	1	0	135000.0	5	2	4
## 1746	1	0	135000.0	5	2	4
## 1750	1	0	165150.0	5	2	2
## 1751	1	0	165150.0	5	2	2
## 1802	0	2	139500.0	4	2	2
## 1811	1	0	54000.0	2	2	2
## 1812	1	0	54000.0	2	2	2
## 1868	1	0	94500.0	4	5	1
## 1869	1	0	94500.0	4	5	1
## 1917	0	0	126000.0	5	2	2
## 1918	0	0	126000.0	5	2	2
## 1919	0	0	126000.0	5	2	2
## 1920	1	0	67500.0	4	4	3
## 1921	1	0	67500.0	4	4	3
## 1924	0	1	270000.0	3	2	2
## 1925	0	1	270000.0	3	2	2
## 1928	1	0	121500.0	5	3	1
## 1929	1	0	121500.0	5	3	1
## 1930	1	0	121500.0	5	3	1
## 1967	1	1	135000.0	1	1	2
## 1968	1	1	135000.0	1	1	2
## 1969	1	1	135000.0	1	1	2
## 1980	1	1	33300.0	4	2	2
## 1981	1	1	33300.0	4	2	2
## 1982	0	2	697500.0	5	4	2
## 1983	0	2	697500.0	5	4	2
## 2003	1	1	198000.0	4	2	2
## 2042	0	1	675000.0	5	2	2
## 2043	0	1	675000.0	5	2	2
## 2044	0	1	675000.0	5	2	2
## 2045	1	0	54000.0	4	4	2
## 2063	1	0	225000.0	5	3	4
## 2077	0	0	171000.0	5	1	2
## 2099	1	2	112500.0	5	1	2
## 2100	1	2	112500.0	5	1	2
## 2131	1	0	135000.0	3	3	1
## 2132	1	0	135000.0	3	3	1
## 2162	0	1	472500.0	5	2	4
## 2196	0	0	112500.0	4	1	2
## 2198	1	0	67500.0	4	2	3
## 2199	1	0	67500.0	4	2	3
## 2200	1	0	67500.0	4	2	3
## 2263	1	0	126000.0	5	3	2
## 2264	1	0	126000.0	5	3	2
## 2265	1	0	126000.0	5	3	2

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## 2	282	1	0	196650.0	4	2	2
## 2	283	1	0	196650.0	4	2	2
## 2	298	1	1	166500.0	5	2	2
## 2	299	1	1	166500.0	5	2	2
## 2	319	0	0	135000.0	4	1	4
## 2	320	0	0	135000.0	4	1	4
## 2	321	0	0	135000.0	4	1	4
## 2	325	1	1	157500.0	4	2	3
	326	1	1	157500.0	4	2	3
	331	0	4	292500.0	4	2	2
	332	0	4	292500.0	4	2	2
	380	0	1	202500.0	4	4	2
	417	0	1	306000.0	4	2	2
	417	0	1	306000.0	4	2	2
	434	0	1	189000.0	4	2	3
	435	1	0	270000.0	3		2
	436	1	0	99000.0	4	1	2
	497	0	1	225000.0	3	2	2
	498	0	1	225000.0	3	2	2
	499	0	1	225000.0	3	2	2
## 2	500	0	2	337500.0	3	2	2
## 2	501	0	2	337500.0	3	2	2
## 2	502	0	2	337500.0	3	2	2
## 2	521	1	1	243000.0	5	2	2
## 2	522	1	1	243000.0	5	2	2
## 2	523	1	1	243000.0	5	2	2
## 2	557	1	0	171000.0	3	2	2
## 2	558	1	0	171000.0	3	2	2
## 2	559	1	0	171000.0	3	2	2
## 2	560	1	0	432000.0	3	2	2
## 2	630	1	1	90000.0	4	1	2
## 2	631	1	1	90000.0	4	1	2
## 2	632	1	1	90000.0	4	1	2
		0	0	171000.0	4	3	1
		0	0	171000.0	4	3	1
	695	1	1	76500.0	4	2	3
	696	1	1	76500.0	4	2	3
## 2		1	2	135000.0	5	4	2
## 2		1	0	257625.0	4	1	2
		0	0	143100.0	4	2	2
## 2		0	0	143100.0		2	
					4	4	2
	808	1	1	225000.0	4		2
	809	1	1	225000.0	4	4	2
	810	1	1	225000.0	4	4	2
## 2		0	0	135000.0	4	2	6
	812	0	0	135000.0	4	2	6
## 2		0	0	135000.0	4	2	6
	830	1	0	216000.0	5	2	4
	860	1	0	94500.0	4	3	1
	861	1	0	94500.0	4	3	1
## 2	896	1	0	207000.0	4	3	2
## 2	897	1	0	207000.0	4	3	2

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## 2898	1	0	207000.0	4	3	2
## 2914	1	0	288000.0	4	4	2
## 2915	1	0	288000.0	4	4	2
## 2919	0	0	45000.0	2	2	2
## 2920	1	0	135000.0	4	3	3
## 2921	1	0	135000.0	4	3	3
## 2922	1	0	135000.0	4	3	3
## 2954	1	0	315000.0	5	4	4
## 2955	1	0	315000.0	5	4	4
## 3012	1	0	166500.0	4	3	6
## 3041	1	2	189000.0	4	2	2
## 3042	1	2	189000.0	4	2	2
## 3078	1	0	54000.0	4	5	2
## 3197	1	1	720000.0	5	2	2
## 3198	1	1	720000.0	5	2	2
## 3199	1	1	720000.0	5	2	2
## 3218	0	0	225000.0	4	2	4
## 3219	0	0	225000.0	4	2	4
## 3219 ## 3220	0	0	225000.0	4	2	4
## 3331	1	0	247500.0	4	3	2
## 3331 ## 3332	1	0	247500.0	4	3	2
## 3333	1	0	247500.0	4	3	2
## 3334	1	1	157500.0	4	3	4
## 3346	1	1	315000.0	5	2	2
## 3347	1	1	315000.0	5	2	2
## 3347 ## 3352	1	0	157500.0	4	4	4
## 3352 ## 3353	1	0	157500.0	4	4	4
## 3353 ## 3354	1	0	157500.0	4	4	4
## 3354	1	0	135000.0	3	1	2
## 3359 ## 3360	1	0	135000.0	3	1	2
	0	3	360000.0	4	2	2
## 3384 ## 3385	0	3	360000.0	4	2	2
## 3450		_		4		
	0	0	135000.0		3	1
## 3451 ## 3490	0	0 0	135000.0 202500.0	4 5	3 3	1
	1					1
## 3491 ## 3495	1	0	202500.0	5	3	1
	1	0	67500.0	4	3	2
## 3570 ## 3583	0	1	135000.0 135000.0	2	2	2
	0	0				4
## 3584	0	0	135000.0	3	3	4
## 3632	1	0	99900.0	4	5	2
## 3633	1	0	99900.0	4	5	2
## 3652 ## 3677	0	0	112500.0	4	1	4
## 3677	1	2	202500.0	4	1	5
## 3678 ## 3605	1	2 0	202500.0	4	1	5 2
## 3695 ## 3696	1		81000.0	2	2	
## 3696 ## 3766	1	0	81000.0	2	2	2
## 3766 ## 3767	1	0	153000.0	2	2	2
## 3767 ## 3706	1	0	153000.0	2	2	2
## 3786 ## 3816	1	1	315000.0	5	2	2
## 3816 ## 3857	0	0	270000.0	4	4	2
## 3857	1	0	76500.0	4	5	2

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## 3	3858	1	0	76500.0	4	5	2
## 3	3859	1	0	76500.0	4	5	2
## 4	1076	1	0	81000.0	4	2	3
## 4	1205	1	0	117000.0	4	1	2
## 4	1206	1	0	117000.0	4	1	2
## 4	1207	1	0	117000.0	4	1	2
## 4	1239	1	0	90000.0	4	3	4
## 4	1240	1	0	216000.0	5	1	2
## 4	1241	1	0	216000.0	5	1	2
## 4		0	1	247500.0	5	2	2
## 4		0	1	247500.0	5	2	2
## 4	_	0	1	247500.0	5	2	2
## 4		0	0	405000.0	5	2	2
## 4		0	0	405000.0	5	2	2
## 4		0	0	405000.0	5	2	2
	1447	0	0	49500.0	4	3	2
## 4		0	0	49500.0	4	3	2
	1483	1	0	189000.0	4	4	2
## 4		1	0	189000.0	4	4	2
## 4		1	2	184500.0	4	2	2
	1519	1	0	157500.0	5	2	1
## 4		1	0	157500.0	5	2	1
## 4		1	0	157500.0	5	2	1
	1588	0	0	112500.0	5	2	2
## 4				135000.0		2	
## 4		0 1	1 1	108000.0	4 5	4	3 2
						=	
	1652 1653	0	0	292500.0 292500.0	4	2	4
			0				
## 4		1	0	90000.0 90000.0	3	3	2
	1683	1	0		3	_	2
	1801	1	0	247500.0	4	4	2
	1802	1	0	247500.0	4	4	2
## 4		1	0	247500.0	4	4	2
## 4		0	1	630000.0	5	2	2
## 4		1	1	148500.0	4	4	4
## 4		0	1	121500.0	4	3	2
## 4		0	0	162000.0	4	3	2
## 4		0	0	162000.0	4	3	2
## 4		0	0	162000.0	4	3	2
## 4		1	1	65250.0	4	1	2
## 4		1	0	67500.0	3	4	2
## 4		1	0	216000.0	4	5	2
## 4		0	0	198000.0	4	2	2
## 4		0	0	198000.0	4	2	2
## 4		0	0	198000.0	4	2	2
## 4		1	0	139500.0	5	1	2
## 4		1	0	139500.0	5	1	2
## 4		1	2	112500.0	5	2	2
## 4		1	0	76500.0	4	3	4
## 4		1	0	76500.0	4	3	4
## 4		1	0	76500.0	4	3	4
## 4	1933	1	1	90000.0	3	2	2

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##	4934	1	1	90000.0	3	2	2
##	4935	0	0	360000.0	5	3	2
##	4936	0	0	360000.0	5	3	2
##	5007	0	0	495000.0	4	2	2
##	5008	0	0	495000.0	4	2	2
##	5064	1	2	157500.0	2	1	2
	5220	0	0	207000.0	4	3	2
	5221	0	0	207000.0	4	3	2
	5222	0	0	162000.0	5	2	2
	5285	1	1	247500.0	4	2	2
	5286	1	1	247500.0	4	2	2
	5287	1	1	247500.0	4	2	2
	5313	0	1	112500.0	3	2	4
	5314	0	1	112500.0	3	2	4
	5314			112500.0	3	2	
	5363	0	0	63000.0	4	2	2
	5364	0	0	63000.0	4	2	2
	5365	0	0	63000.0	4	2	2
	5428	0	0	180000.0	4	3	1
	5461	0	0	38250.0	2	2	2
	5462	0	0	99000.0	4	1	2
	5463	0	0	99000.0	4	1	2
	5464	0	0	99000.0	4	1	2
##	5523	0	3	90000.0	4	2	2
	5524	0	3	90000.0	4	2	2
##	5590	1	2	247500.0	4	2	2
##	5591	1	2	247500.0	4	2	2
##	5592	1	2	247500.0	4	2	2
##	5689	0	1	180000.0	5	2	2
##	5690	0	1	180000.0	5	2	2
##	5784	0	0	360000.0	3	3	3
##	5785	0	0	360000.0	3	3	3
##	5786	0	0	360000.0	3	3	3
##	5975	1	3	67500.0	5	2	2
##	5976	1	3	67500.0	5	2	2
##	6051	0	1	144000.0	5	2	2
##	6052	0	1	144000.0	5	2	2
##	6053	0	1	144000.0	5	2	2
##	6166	1	1	94500.0	5	3	2
##	6167	1	1	94500.0	5	3	2
##	6168	1	1	94500.0	5	3	2
##	6219	1	0	94500.0	4	1	2
	6220	1	0	94500.0	4	1	2
	6275	0	2	270000.0	3	2	2
	6276	0	2	270000.0	3	2	2
	6343	1	0	180000.0	3	2	2
	6344	1	0	180000.0	3	2	2
	6345	1	0	180000.0	3	2	2
	6375	1	1	270000.0	5	3	2
	6409	1	1	112500.0	4	5	2
	6410	1	1	112500.0	4	5	2
	6462	0	2	130500.0	4	2	2
" "	J 102	•	-	130300.0	•	-	_

,						1	
##	6463	0	2	130500.0	4	2	2
##	6471	1	1	112500.0	4	1	4
##	6540	0	3	225000.0	4	2	3
##	6541	0	3	225000.0	4	2	3
##	6542	0	0	225000.0	4	3	4
##	6543	0	0	225000.0	4	3	4
##	6544	0	0	225000.0	4	3	4
##	6576	1	0	72000.0	4	3	2
##	6577	1	0	72000.0	4	3	2
##	6610	1	0	36000.0	4	4	3
##	6673	0	2	148500.0	4	2	2
##	6674	0	2	148500.0	4	2	2
##	6685	1	0	90000.0	5	5	2
##	6717	1	1	270000.0	5	2	2
##	6733	0	0	81000.0	4	1	2
##	6734	0	0	81000.0	4	1	2
##	6777	1	1	135000.0	4	3	3
##	6778	1	1	135000.0	4	3	3
##	6779	0	1	189000.0	4	2	2
##	6780	0	1	315000.0	5	2	5
##	6781	0	1	315000.0	5	2	5
##	6782	0	1	315000.0	5	2	5
##	6783	0	1	112500.0	4	2	1
##	6834	1	0	180000.0	5	1	2
##	6879	0	1	315000.0	4	2	1
##	6880	0	1	315000.0	4	2	1
##	6881	0	1	315000.0	4	2	1
##	6967	1	1	126000.0	4	2	2
##	7009	0	1	202500.0	2	3	2
##	7009	0	1	202500.0	2	3	2
##	7010	0	1	202500.0	2	3	2
##	7011	0	1	99000.0	4	3	2
			1	99000.0			
##	7025	0			4	3	2
##	7033	0	0	67500.0	5	3	2
##	7034	0	0	67500.0	5		2
##	7035	0	0	67500.0	5	3	2
##	7079	0	0	76500.0	5	2	2
##	7080	0	0	76500.0	5	2	2
##	7081	0	0	76500.0	5	2	2
##	7123	0	0	112500.0	4	1	2
##	7124	0	0	112500.0	4	1	2
##	7183	1	0	189000.0	5	3	2
##	7184	1	0	189000.0	5	3	2
##	7185	1	0	189000.0	5	3	2
##	7199	0	1	337500.0	5	2	2
##	7200	0	1	337500.0	5	2	2
##	7210	0	0	225000.0	4	2	6
##	7211	0	0	225000.0	4	2	6
##	7212	0	0	225000.0	4	2	6
##	7267	1	0	292500.0	5	5	2
##	7268	1	0	292500.0	5	5	2
##	7269	1	0	292500.0	5	5	2

## 7326	1	1	225000.0	4	3	6
## 7367	0	0	99000.0	3	1	1
## 7368	0	0	99000.0	3	1	1
## 7369	0	0	99000.0	3	1	1
## 7399	0	0	540000.0	5	2	2
## 7400	0	0	540000.0	5	2	2
## 7400	0	0	540000.0	5	2	2
	1	2	148500.0	4	2	2
## 7412	1	2	148500.0	4	2	2
## 7428	0	1	180000.0	4	3	2
## 7434	1	2	157500.0	4	1	2
## 7437	1	1	118350.0	5	1	2
## 7487	1	0	112500.0	4	3	1
## 7499	1	0	139500.0	5	2	4
## 7500	1	0	139500.0	5	2	4
## 7501	1	0	139500.0	5	2	4
## 7521	0	1	63000.0	4	3	2
## 7522	0	1	63000.0	4	3	2
## 7628	0	0	270000.0	4	1	2
## 7629	0	0	270000.0	4	1	2
## 7637	1	0	234000.0	4	2	2
## 7638	1	0	234000.0	4	2	2
## 7649	1	2	112500.0	4	3	2
## 7650	1	2	112500.0	4	3	2
## 7651	1	2	112500.0	4	3	2
## 7710	0	0	103500.0	4	3	2
## 7711	0	0	103500.0	4	3	2
## 7743	1	2	81000.0	2	3	2
## 7744	1	2	81000.0	2	3	2
## 7745	1	2	81000.0	2	3	2
## 7746	1	0	103500.0	4	3	2
## 7747	1	0	103500.0	4	3	2
## 7756	0	1	252000.0	4	2	2
## 7757	0	1	252000.0	4	2	2
## 7775	0	0	157500.0	4	3	4
## 7776	0	0	157500.0	4	3	4
## 7777	0	0	157500.0	4	3	4
## 7778	1	0	157500.0	4	3	2
## 7779	1	0	157500.0	4	3	2
## 7780	1	0	157500.0	4	3	2
## 7951	1	3	157500.0	4	1	2
## 8206	0	0	116653.5	4	2	2
## 8207	0	0	116653.5	4	2	2
## 8208	0	0	116653.5	4	2	2
## 8247	1	0	40500.0	4	2	2
## 8248	1	0	40500.0	4	2	2
## 8249	1	0	40500.0	4	2	2
## 8425	0	1	225000.0	5	2	3
## 8426	0	1	225000.0	5	2	3
## 8427	0	0	112500.0	2	2	2
## 8463	1	3	337500.0	5	2	2
## 8533	1	1	180000.0	3	2	2

						_	
##	8549	0	0	180000.0	5	4	2
##	8550	0	0	180000.0	5	4	2
##	8590	1	1	265500.0	5	2	4
##	8591	1	1	265500.0	5	2	4
##	8592	1	1	265500.0	5	2	4
##	8606	0	0	202500.0	3	3	4
##	8732	1	0	144000.0	5	2	2
##	8733	1	0	144000.0	5	2	2
##	8734	1	0	144000.0	5	2	2
	8743	1	0	247500.0	4	5	2
##	8744	0	0	324000.0	4	3	2
##	8745	0	0	324000.0	4	3	2
	8746	0	0	324000.0	4	3	2
	8776	0	2	270000.0	5	2	2
##	8777	0	2	270000.0	5	2	2
##	8778	0	2	270000.0	5	2	2
	8907	0	0	270000.0	4	2	4
##	8908	0	0	270000.0	4	2	4
##	8909	0	0	270000.0	4	2	4
## ##	8920 8921	1	0	153000.0 153000.0	4	4	4 4
				153000.0			
## ##	8922 8985	1	0 1	112500.0	4	4 1	4 2
##	9039	1	0	441000.0	4	2	2
##	9040	1	0	441000.0	4	2	2
	9228	1	0	315000.0	4	2	4
##	9229	1	0	315000.0	4	2	4
##	9230	1	0	315000.0	4	2	4
	9336	0	0	382500.0	4	2	3
##	9337	0	0	382500.0	4	2	3
##	9338	0	0	382500.0	4	2	3
##	9414	0	0	157500.0	4	5	2
	9415	0	0	157500.0	4	5	2
	9416	0	0	157500.0	4	5	2
	9478	0	0	90000.0	5	3	4
	9562	1	1	405000.0	5	5	2
	9563	1	1	405000.0	5	5	2
	9564	1	1	405000.0	5	5	2
	9641	0	0	148500.0	4	1	2
	9642	0	0	148500.0	4	1	2
	9643	0	0	148500.0	4	1	2
	9663	0	2	405000.0	4	2	6
	9664	0	2	405000.0	4	2	6
##	9670	0	1	427500.0	4	2	2
	9671	0	1	427500.0	4	2	2
	9672	0	1	427500.0	4	2	2
	9798	0	0	144000.0	4	2	2
	9799	0	0	144000.0	4	2	2
	9800	0	0	144000.0	4	2	2
	9885	0	2	90000.0	4	2	3
	9909	0	1	247500.0	5	3	2
##	9910	0	1	247500.0	5	3	2

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```
## 9984
          0
                  1
                     810000.0
                                         2
                                               2
## 9985
                                         2
                                               2
          0
                  1
                     810000.0
                                   4
                                                2
## 9986
          0
                  1
                     810000.0
##
## $`Location of Outlier`
##
         1
                     9
                        10
                            20
                                21
                                    63
                                        64
                                            77
                                               223
                                                   224
                                                       240
                                                           250
                                                               251
   [1]
                       275
                                        396
                                           406
                                               407
                                                   408
                                                           493
                                                               494
##
  [16]
       252
           253
               254
                   255
                           276
                               394
                                   395
                                                        414
           556
                    560
                       561
                           562
                               575
                                   576
                                        642
                                           643
                                               654
                                                   698
                                                           702
##
   [31]
       555
               559
                                                       699
                                                   964 1008 1009 1014
##
  [46]
       740
           741
               809
                   810
                       864
                           865
                               925
                                   949
                                       950
                                           951
                                               963
  [61] 1039 1040 1041 1042 1043 1072 1073 1079 1080 1117 1123 1124 1125 1133 1140
##
##
  [76] 1141 1142 1143 1144 1145 1156 1193 1194 1311 1312 1313 1367 1368 1369 1370
  [91] 1371 1374 1480 1481 1482 1503 1530 1531 1532 1603 1638 1662 1674 1675 1676
## [106] 1728 1729 1730 1744 1745 1746 1750 1751 1802 1811 1812 1868 1869 1917 1918
## [121] 1919 1920 1921 1924 1925 1928 1929 1930 1967 1968 1969 1980 1981 1982 1983
## [136] 2003 2042 2043 2044 2045 2063 2077 2099 2100 2131 2132 2162 2196 2198 2199
## [151] 2200 2263 2264 2265 2282 2283 2298 2299 2319 2320 2321 2325 2326 2331 2332
## [166] 2380 2417 2418 2434 2435 2436 2497 2498 2499 2500 2501 2502 2521 2522 2523
## [181] 2557 2558 2559 2560 2630 2631 2632 2657 2658 2695 2696 2700 2764 2801 2802
## [196] 2808 2809 2810 2811 2812 2813 2830 2860 2861 2896 2897 2898 2914 2915 2919
## [211] 2920 2921 2922 2954 2955 3012 3041 3042 3078 3197 3198 3199 3218 3219 3220
## [226] 3331 3332 3333 3334 3346 3347 3352 3353 3354 3359 3360 3384 3385 3450 3451
## [241] 3490 3491 3495 3570 3583 3584 3632 3633 3652 3677 3678 3695 3696 3766 3767
## [256] 3786 3816 3857 3858 3859 4076 4205 4206 4207 4239 4240 4241 4341 4342 4343
## [271] 4444 4445 4446 4447 4448 4483 4484 4505 4519 4520 4521 4588 4625 4647 4652
## [286] 4653 4682 4683 4801 4802 4803 4806 4807 4808 4809 4810 4811 4815 4832 4849
## [301] 4871 4872 4873 4884 4885 4899 4922 4923 4924 4933 4934 4935 4936 5007 5008
## [316] 5064 5220 5221 5222 5285 5286 5287 5313 5314 5315 5363 5364 5365 5428 5461
## [331] 5462 5463 5464 5523 5524 5590 5591 5592 5689 5690 5784 5785 5786 5975 5976
## [346] 6051 6052 6053 6166 6167 6168 6219 6220 6275 6276 6343 6344 6345 6375 6409
## [361] 6410 6462 6463 6471 6540 6541 6542 6543 6544 6576 6577 6610 6673 6674 6685
## [376] 6717 6733 6734 6777 6778 6779 6780 6781 6782 6783 6834 6879 6880 6881 6967
## [391] 7009 7010 7011 7024 7025 7033 7034 7035 7079 7080 7081 7123 7124 7183 7184
## [406] 7185 7199 7200 7210 7211 7212 7267 7268 7269 7326 7367 7368 7369 7399 7400
## [421] 7401 7411 7412 7428 7434 7437 7487 7499 7500 7501 7521 7522 7628 7629 7637
## [436] 7638 7649 7650 7651 7710 7711 7743 7744 7745 7746 7747 7756 7757 7775 7776
## [451] 7777 7778 7779 7780 7951 8206 8207 8208 8247 8248 8249 8425 8426 8427 8463
## [466] 8533 8549 8550 8590 8591 8592 8606 8732 8733 8734 8743 8744 8745 8746 8776
## [481] 8777 8778 8907 8908 8909 8920 8921 8922 8985 9039 9040 9228 9229 9230 9336
## [496] 9337 9338 9414 9415 9416 9478 9562 9563 9564 9641 9642 9643 9663 9664 9670
## [511] 9671 9672 9798 9799 9800 9885 9909 9910 9984 9985 9986
##
## $`Outlier Probability`
   ##
##
  ##
  ##
##
  ##
```

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When k is 4, there are 521 outliers.

c) Outlier detection using kth Nearest Neighbour Distance method

nnk(x, k=4)

##	\$`Outli	er Obser	vations	S`			
##	ge	nder num	child	ann_income	education	marital	housing
##	1	0	_ 0	427500.0	5	1	1
##	2	0	0	427500.0	5	1	1
##	8	1	0	283500.0	5	4	2
##	9	1	0	283500.0	5	4	2
##	10	1	0	283500.0	5	4	2
##	20	1	0	130500.0	3	2	2
##	21	1	0	130500.0	3	2	2
##	63	1	1	211500.0	4	1	2
##	64	1	1	211500.0	4	1	2
##	77	1	0	315000.0	4	5	2
##	223	1	2	157500.0	4	3	2
	224	1	2	157500.0	4	3	2
	240	1	0	94500.0	5	2	2
##	250	1	0	270000.0	3	1	3
	251	1	-	270000.0	3	1	
	251	1	0	270000.0	3	1	3
						2	
##	253	1 1	1	450000.0 450000.0	5	2	2
	254	_	1		5		2
	255	0	1	180000.0	4	2	4
	275	1	0	315000.0	5	4	2
	276	1	0	315000.0	5	4	2
	394	1	0	74250.0	5	4	3
	395	1	0	74250.0	5	4	3
	396	1	0	74250.0	5	4	3
	406	1	0	144000.0	4	3	2
##	407	1	0	144000.0	4	3	2
##	408	1	0	144000.0	4	3	2
	414	1	0	40500.0	4	3	2
	493	1	0	900000.0	5	3	2
	494	1	0	900000.0	5	3	2
	555	0	0	108000.0	4	3	5
##	556	0	0	108000.0	4	3	5
##	559	0	0	198000.0	4	3	4
	560	0	0	198000.0	4	3	4
##	561	0	0	360000.0	5	2	3
##	562	0	0	360000.0	5	2	3
	575	1	0	270000.0	3	1	2
##	576	1	0	270000.0	3	1	2
##	642	0	1	112500.0	4	4	5
##	643	0	1	112500.0	4	4	5
##	654	0	0	216000.0	4	2	2
##	698	1	0	45000.0	4	4	2
##	699	1	0	45000.0	4	4	2
##	702	1	0	112500.0	4	3	1
##	703	1	0	112500.0	4	3	1
##	740	0	1	144000.0	3	2	2
##	741	0	1	144000.0	3	2	2
##	809	1	0	135000.0	4	1	4
##	810	1	0	135000.0	4	1	4
##	864	0	2	445500.0	5	2	3

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## 865	0	2	445500.0	5	2	3
## 925	0	0	225000.0	5	1	2
## 949	1	2	157500.0	5	2	2
## 950	1	2	157500.0	5	2	2
## 951	1	2	144000.0	4	2	3
## 963	0	0	270000.0	4	3	2
## 964	0	0	270000.0	4	3	2
## 1008	1	0	135000.0	3	3	2
## 1009	1	2	99000.0	4	2	2
## 1014	0	0	90000.0	4	1	2
## 1039	0	0	495000.0	5	3	2
## 1040	0	0	495000.0	5	3	2
## 1041	0	0	495000.0	5	3	2
## 1042	0	2	157500.0	4	2	6
## 1043	0	2	157500.0	4	2	6
## 1072	1	0	99000.0	5	3	4
## 1073	1	0	99000.0	5	3	4
				4	2	
## 1079	0	0	85500.0			2
## 1080	0	0	85500.0	4	2	2
## 1117	1	0	279000.0	5	3	2
## 1123	0	2	157500.0	4	2	3
## 1124	0	2	157500.0	4	2	3
## 1125	0	2	157500.0	4	2	3
## 1133	1	0	112500.0	3	3	4
## 1140	1	2	306000.0	5	2	2
## 1141	1	2	306000.0	5	2	2
## 1142	1	2	306000.0	5	2	2
## 1143	1	0	166500.0	4	2	2
## 1144	1	0	166500.0	4	2	2
## 1145	1	0	166500.0	4	2	2
## 1156	1	1	67500.0	4	2	3
## 1193	0	0	202500.0	2	2	2
## 1194	0	0	202500.0	2	2	2
## 1311	1	0	99000.0	4	3	2
## 1312	1	0	99000.0	4	3	2
## 1313	1	0	99000.0	4	3	2
## 1367	1	0	126000.0	4	3	4
## 1368	0	1	180000.0	3	2	4
## 1369	0	1	180000.0	3	2	4
## 1370	1	0	310500.0	5	3	2
## 1371	1	0	310500.0	5	3	2
## 1374	1	2	67500.0	4	4	2
## 1480	0	0	135000.0	5	1	2
## 1481	0	0	135000.0	5	1	2
## 1482	0	0	135000.0	5	1	2
## 1503	1	1	90000.0	4	4	1
## 1530	1	0	76500.0	4	1	2
## 1531	1	0	76500.0	4	1	2
## 1532	1	0	76500.0	4	1	2
## 1603	1	0	184500.0	4	2	2
## 1638	0	0	180000.0	5	3	2
## 1662	1	2	225000.0	4	1	2
"" 1002	1	۷	223000.0	7	1	۷

## 1674	0	0	99000.0	4	3	2
## 1675	0	0	99000.0	4	3	2
## 1676	0	0	99000.0	4	3	2
## 1728	1	0	162000.0	4	2	2
## 1728 ## 1729	1	0	162000.0	4	2	2
## 1730	1	0	162000.0	4	2	2
## 1744	1	0	135000.0	5	2	4
## 1745	1	0	135000.0	5	2	4
## 1746	1	0	135000.0	5	2	4
## 1750	1	0	165150.0	5	2	2
## 1751	1	0	165150.0	5	2	2
## 1802	0	2	139500.0	4	2	2
## 1811	1	0	54000.0	2	2	2
## 1812	1	0	54000.0	2	2	2
## 1868	1	0	94500.0	4	5	1
## 1869	1	0	94500.0	4	5	1
## 1917	0	0	126000.0	5	2	2
## 1918	0	0	126000.0	5	2	2
## 1919	0	0	126000.0	5	2	2
## 1920	1	0	67500.0	4	4	3
## 1921	1	0	67500.0	4	4	3
## 1924	0	1	270000.0	3	2	2
## 1925	0	1	270000.0	3	2	2
## 1928	1	0	121500.0	5	3	1
## 1929	1	0	121500.0	5	3	1
## 1930	1	0	121500.0	5	3	1
## 1967	1	1	135000.0	1	1	2
## 1968	1	1	135000.0	1	1	2
## 1969	1	1	135000.0	1	1	2
## 1980	1	1	33300.0	4	2	2
## 1981	1	1	33300.0	4	2	2
## 1982	0	2	697500.0	5	4	2
## 1983	0	2	697500.0	5	4	2
## 2003	1	1	198000.0	4	2	2
## 2042	0	1	675000.0	5	2	2
## 2043	0	1	675000.0	5	2	2
## 2044	0	1	675000.0	5	2	2
## 2045	1	0	54000.0	4	4	2
## 2063	1	0	225000.0	5	3	4
## 2077	0	0	171000.0	5	1	2
## 2099	1	2	112500.0	5	1	2
## 2100	1	2	112500.0	5	1	2
## 2131	1	0	135000.0	3	3	1
## 2132	1	0	135000.0	3	3	1
	0		472500.0	5	2	
		1		4		4
## 2196	0	0	112500.0		1	2
## 2198	1	0	67500.0	4	2	3
## 2199	1	0	67500.0	4	2	3
## 2200	1	0	67500.0	4	2	3
## 2263	1	0	126000.0	5	3	2
## 2264	1	0	126000.0	5	3	2
## 2265	1	0	126000.0	5	3	2

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## 2282	1	0	196650.0	4	2	2
## 2283	1	0	196650.0	4	2	2
## 2298	1	1	166500.0	5	2	2
## 2299	1	1	166500.0	5	2	2
## 2319	0	0	135000.0	4	1	4
## 2320	0	0	135000.0	4	1	4
## 2321	0	0	135000.0	4	1	4
## 2325	1	1	157500.0	4	2	3
## 2326	1	1	157500.0	4	2	3
## 2331	0	4	292500.0	4	2	2
## 2332	0	4	292500.0	4	2	2
## 2380	0	1	202500.0	4	4	2
## 2417	0	1	306000.0	4	2	2
## 2418	0	1	306000.0	4	2	2
## 2434	0	1	189000.0	4	2	3
## 2435	1	0	270000.0	3	2	2
## 2436	1	0	99000.0	4	1	2
## 2497	0	1	225000.0	3	2	2
## 2498	0	1	225000.0	3	2	2
## 2499	0	1	225000.0	3	2	2
## 2500	0	2	337500.0	3	2	2
## 2501	0	2	337500.0	3	2	2
## 2502	0	2	337500.0	3	2	2
## 2521	1	1	243000.0	5	2	2
## 2522	1	1	243000.0	5	2	2
## 2523	1	1	243000.0	5	2	2
## 2557	1	0	171000.0	3	2	2
## 2558	1	0	171000.0	3	2	2
## 2559	1	0	171000.0	3	2	2
## 2560	1	0	432000.0	3	2	2
## 2630	1	1	90000.0	4	1	2
## 2631	1	1	90000.0	4	1	2
## 2632	1	1	90000.0	4	1	2
## 2657	0	0	171000.0	4	3	1
## 2658	0	0	171000.0	4	3	1
## 2695	1	1	76500.0	4	2	3
## 2696	1	1	76500.0	4	2	3
## 2700	1	2	135000.0	5	4	2
## 2764	1	0	257625.0	4	1	2
## 2801	0	0	143100.0	4	2	2
## 2802	0	0	143100.0	4	2	2
## 2808	1	1	225000.0	4	4	2
## 2809	1	1	225000.0	4	4	2
## 2810	1	1	225000.0	4	4	2
## 2811	0	0	135000.0	4	2	6
## 2812	0	0	135000.0	4	2	6
## 2813	0	0	135000.0	4	2	6
## 2830	1	0	216000.0	5	2	4
## 2860	1	0	94500.0	4	3	1
## 2861	1	0	94500.0	4	3	1
## 2896	1	0	207000.0	4	3	2
## 2897	1	0	207000.0	4	3	2
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##	2898	1	0	207000.0	4	3	2
##	2914	1	0	288000.0	4	4	2
##	2915	1	0	288000.0	4	4	2
##	2919	0	0	45000.0	2	2	2
##	2920	1	0	135000.0	4	3	3
##	2921	1	0	135000.0	4	3	3
##	2922	1	0	135000.0	4	3	3
##	2954	1	0	315000.0	5	4	4
##	2955	1	0	315000.0	5	4	4
##	3012	1	0	166500.0	4	3	6
##	3041	1	2	189000.0	4	2	2
##	3042	1	2	189000.0	4	2	2
##	3078	1	0	54000.0	4	5	2
##	3197	1	1	720000.0	5	2	2
##	3198	1	1	720000.0	5	2	2
##	3199	1	1	720000.0	5	2	2
##	3218	0	0	225000.0	4	2	4
##	3219	0	0	225000.0	4	2	4
##	3220	0	0	225000.0	4	2	4
##	3331	1	0	247500.0	4	3	2
##	3332	1	0	247500.0	4	3	2
##	3333	1	0	247500.0	4	3	2
##	3334	1	1	157500.0	4	3	4
##	3346	1	1	315000.0	5	2	2
##	3347	1	1	315000.0	5	2	2
##	3352	1	0	157500.0	4	4	4
##		1	0	157500.0	4	4	4
##		1	0	157500.0	4	4	4
##		1	0	135000.0	3	1	2
##		1	0	135000.0	3	1	2
##	3384	0	3	360000.0	4	2	2
##		0	3	360000.0	4	2	2
##	3450	0	0	135000.0	4	3	1
##		0	0	135000.0	4	3	1
##		1	0	202500.0	5	3	1
	3491	1	0	202500.0	5	3	1
##		1	0	67500.0	4	3	2
##		0	1	135000.0	2	2	2
##		0	0	135000.0	3	3	4
##		0	0	135000.0	3	3	4
##		1	0	99900.0	4	5	2
	3633	1	0	99900.0	4	5	2
##		0	0	112500.0	4	1	4
##		1	2	202500.0	4	1	5
##		1	2	202500.0	4	1	5
##		1	0	81000.0	2	2	2
##		1	0	81000.0	2	2	2
##		1	0	153000.0	2	2	2
##		1	0	153000.0	2	2	2
##		1	1	315000.0	5	2	2
##		0	0	270000.0	4	4	2
##		1	0	76500.0	4	5	2
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## 3858	1	0	76500.0	4	5	2
## 3859	1	0	76500.0	4	5	2
## 4076	1	0	81000.0	4	2	3
## 4205	1	0	117000.0	4	1	2
## 4206	1	0	117000.0	4	1	2
## 4207	1	0	117000.0	4	1	2
## 4239	1	0	90000.0	4	3	4
## 4240	1	0	216000.0	5	1	2
## 4241	1	0	216000.0	5	1	2
## 4341	0	1	247500.0	5	2	2
## 4342	0	1	247500.0	5	2	2
## 4343	0	1	247500.0	5	2	2
## 4444	0	0	405000.0	5	2	2
## 4445	0	0	405000.0	5	2	2
## 4446			405000.0	5	2	2
## 4446	0	0	49500.0	4	3	2
	0				_	
## 4448	0	0	49500.0	4	3	2
## 4483	1	0	189000.0	4	4	2
## 4484	1	0	189000.0	4	4	2
## 4505	1	2	184500.0	4	2	2
## 4519	1	0	157500.0	5	2	1
## 4520	1	0	157500.0	5	2	1
## 4521	1	0	157500.0	5	2	1
## 4588	0	0	112500.0	5	2	2
## 4625	0	1	135000.0	4	2	3
## 4647	1	1	108000.0	5	4	2
## 4652	0	0	292500.0	4	2	4
## 4653	0	0	292500.0	4	2	4
## 4682	1	0	90000.0	3	3	2
## 4683	1	0	90000.0	3	3	2
## 4801	1	0	247500.0	4	4	2
## 4802	1	0	247500.0	4	4	2
## 4803	1	0	247500.0	4	4	2
## 4806	0	1	630000.0	5	2	2
## 4807	1	1	148500.0	4	4	4
## 4808	0	1	121500.0	4	3	2
## 4809	0	0	162000.0	4	3	2
## 4810	0	0	162000.0	4	3	2
## 4811	0	0	162000.0	4	3	2
## 4815	1	1	65250.0	4	1	2
## 4832	1	0	67500.0	3	4	2
## 4849	1	0	216000.0	4	5	2
## 4871	0	0	198000.0	4	2	2
## 4872	0	0	198000.0	4	2	2
## 4873	0	0	198000.0	4	2	2
## 4884	1	0	139500.0	5	1	2
## 4885	1	0	139500.0	5	1	2
## 4899	1	2	112500.0	5	2	2
## 4922	1	0	76500.0	4	3	4
## 4923	1	0	76500.0	4	3	4
## 4923	1	0	76500.0	4	3	4
## 4933	1	1	90000.0	3	2	2
ππ = 333	1	1	J0000•0	5	۷.	2

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## 4934	1	1	90000.0	3	2	2
## 4935	0	0	360000.0	5	3	2
## 4936	0	0	360000.0	5	3	2
## 5007	0	0	495000.0	4	2	2
## 5008	0	0	495000.0	4	2	2
## 5064	1	2	157500.0	2	1	2
## 5220	0	0	207000.0	4	3	2
## 5221	0	0	207000.0	4	3	2
## 5222	0	0	162000.0	5	2	2
## 5285	1	1	247500.0	4	2	2
## 5286	1	1	247500.0	4	2	2
## 5287	1	1	247500.0	4	2	2
## 5313	0	1	112500.0	3	2	4
## 5313	0	1	112500.0	3	2	4
			112500.0			
## 5315	0	1	63000.0	3	2 2	4
## 5363	0	0		4		2
## 5364	0	0	63000.0	4	2	2
## 5365	0	0	63000.0	4	2	2
## 5428	0	0	180000.0	4	3	1
## 5461	0	0	38250.0	2	2	2
## 5462	0	0	99000.0	4	1	2
## 5463	0	0	99000.0	4	1	2
## 5464	0	0	99000.0	4	1	2
## 5523	0	3	90000.0	4	2	2
## 5524	0	3	90000.0	4	2	2
## 5590	1	2	247500.0	4	2	2
## 5591	1	2	247500.0	4	2	2
## 5592	1	2	247500.0	4	2	2
## 5689	0	1	180000.0	5	2	2
## 5690	0	1	180000.0	5	2	2
## 5784	0	0	360000.0	3	3	3
## 5785	0	0	360000.0	3	3	3
## 5786	0	0	360000.0	3	3	3
## 5975	1	3	67500.0	5	2	2
## 5976	1	3	67500.0	5	2	2
## 6051	0	1	144000.0	5	2	2
## 6052	0	1	144000.0	5	2	2
## 6053	0	1	144000.0	5	2	2
## 6166	1	1	94500.0	5	3	2
## 6167	1	1	94500.0	5	3	2
## 6168	1	1	94500.0	5	3	2
## 6219	1	0	94500.0	4	1	2
## 6220	1	0	94500.0	4	1	2
## 6275	0	2	270000.0	3	2	2
## 6276	0	2	270000.0	3	2	2
## 6343	1	0	180000.0	3	2	2
## 6344	1	0	180000.0	3	2	2
## 6344	1	0	180000.0	3	2	2
## 6375	1	1	270000.0	5	3	2
	1	1	112500.0	4	5	
## 6409 ## 6410	1	1	112500.0	4	5 5	2 2
## 6462	0	2	130500.0	4	2	2

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## 6463	0	2	130500.0	4	2	2
## 6471	1	1	112500.0	4	1	4
## 6540	0	3	225000.0	4	2	3
## 6541	0	3	225000.0	4	2	3
## 6542	0	0	225000.0	4	3	4
## 6543	0	0	225000.0	4	3	4
## 6544	0	0	225000.0	4	3	4
## 6576	1	0	72000.0	4	3	2
## 6577	1	0	72000.0	4	3	2
## 6610	1	0	36000.0	4	4	3
## 6673	0	2	148500.0	4	2	2
## 6674	0	2	148500.0	4	2	2
## 6685	1	0	90000.0	5	5	2
## 6717	1	1	270000.0	5	2	2
## 6733	0	0	81000.0	4	1	2
## 6734	0	0	81000.0	4	1	2
## 6777	1	1	135000.0	4	3	3
			135000.0			
## 6778	1	1		4	3 2	3
## 6779	0	1	189000.0	4		2
## 6780	0	1	315000.0	5	2	5
## 6781	0	1	315000.0	5	2	5
## 6782	0	1	315000.0	5	2	5
## 6783	0	1	112500.0	4	2	1
## 6834	1	0	180000.0	5	1	2
## 6879	0	1	315000.0	4	2	1
## 6880	0	1	315000.0	4	2	1
## 6881	0	1	315000.0	4	2	1
## 6967	1	1	126000.0	4	2	2
## 7009	0	1	202500.0	2	3	2
## 7010	0	1	202500.0	2	3	2
## 7011	0	1	202500.0	2	3	2
## 7024	0	1	99000.0	4	3	2
## 7025	0	1	99000.0	4	3	2
## 7033	0	0	67500.0	5	3	2
## 7034	0	0	67500.0	5	3	2
## 7035	0	0	67500.0	5	3	2
## 7079	0	0	76500.0	5	2	2
## 7080	0	0	76500.0	5	2	2
## 7081	0	0	76500.0	5	2	2
## 7123	0	0	112500.0	4	1	2
## 7124	0	0	112500.0	4	1	2
## 7183	1	0	189000.0	5	3	2
## 7184	1	0	189000.0	5	3	2
## 7185	1	0	189000.0	5	3	2
## 7199	0	1	337500.0	5	2	2
## 7200	0	1	337500.0	5	2	2
## 7210	0	0	225000.0	4	2	6
## 7210 ## 7211	0	0	225000.0	4	2	6
## 7211 ## 7212	0	0	225000.0	4	2	6
	1	0	292500.0		5	
## 7267 ## 7268	1	0	292500.0	5 5	5 5	2 2
## 7269	1	0	292500.0	5	5	2

## 7326	1	1	225000.0	4	3	6
## 7367	0	0	99000.0	3	1	1
## 7368	0	0	99000.0	3	1	1
## 7369	0	0	99000.0	3	1	1
## 7399	0	0	540000.0	5	2	2
## 7400	0	0	540000.0	5	2	2
## 7400	0	0	540000.0	5	2	2
## 7411	1	2	148500.0	4	2	2
## 7412	1	2	148500.0	4	2	2
## 7428	0	1	180000.0	4	3	2
## 7434	1	2	157500.0	4	1	2
## 7437	1	1	118350.0	5	1	2
## 7487	1	0	112500.0	4	3	1
## 7499	1	0	139500.0	5	2	4
## 7500	1	0	139500.0	5	2	4
## 7501	1	0	139500.0	5	2	4
## 7521	0	1	63000.0	4	3	2
## 7522	0	1	63000.0	4	3	2
## 7628	0	0	270000.0	4	1	2
## 7629	0	0	270000.0	4	1	2
## 7637	1	0	234000.0	4	2	2
## 7638	1	0	234000.0	4	2	2
## 7649	1	2	112500.0	4	3	2
## 7650	1	2	112500.0	4	3	2
## 7651	1	2	112500.0	4	3	2
## 7710	0	0	103500.0	4	3	2
## 7711	0	0	103500.0	4	3	2
## 7743	1	2	81000.0	2	3	2
## 7744	1	2	81000.0	2	3	2
## 7745	1	2	81000.0	2	3	2
## 7746	1	0	103500.0	4	3	2
## 7747	1	0	103500.0	4	3	2
## 7756	0	1	252000.0	4	2	2
## 7757	0	1	252000.0	4	2	2
## 7775	0	0	157500.0	4	3	4
## 7776	0	0	157500.0	4	3	4
## 7777	0	0	157500.0	4	3	4
## 7778	1	0	157500.0	4	3	2
## 7779	1	0	157500.0	4	3	2
## 7780	1	0	157500.0	4	3	2
## 7951	1	3	157500.0	4	1	2
## 8206	0	0	116653.5	4	2	2
## 8207	0	0	116653.5	4	2	2
## 8207	0	0	116653.5	4	2	2
## 8247	1	0	40500.0	4	2	2
## 8248	1	0	40500.0	4	2	2
## 8249 ## 8425	1 0	0 1	40500.0 225000.0	4 5	2 2	2
## 8425		1	225000.0	5	2	3
	0					
## 8427 ## 8463	0 1	0 3	112500.0 337500.0	2 5	2 2	2
				3	2	2
## 8533	1	1	180000.0	3	۷	Z

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## 8549	0	0	180000.0	5	4	2
## 8550	0	0	180000.0	5	4	2
## 8590	1	1	265500.0	5	2	4
## 8591	1	1	265500.0	5	2	4
## 8592	1	1	265500.0	5	2	4
## 8606	0	0	202500.0	3	3	4
## 8732	1	0	144000.0	5	2	2
## 8733	1	0	144000.0	5	2	2
## 8734	1	0	144000.0	5	2	2
## 8743	1	0	247500.0	4	5	2
## 8744	0	0	324000.0	4	3	2
## 8745	0	0	324000.0	4	3	2
## 8746	0	0	324000.0	4	3	2
## 8746	0	2	270000.0	5	2	2
		2				
## 8777	0	2	270000.0	5	2 2	2 2
## 8778	0		270000.0	5		
## 8907	0	0	270000.0	4	2	4
## 8908	0	0	270000.0	4	2	4
## 8909	0	0	270000.0	4	2	4
## 8920	1	0	153000.0	4	4	4
## 8921	1	0	153000.0	4	4	4
## 8922	1	0	153000.0	4	4	4
## 8985	1	1	112500.0	4	1	2
## 9039	1	0	441000.0	4	2	2
## 9040	1	0	441000.0	4	2	2
## 9228	1	0	315000.0	4	2	4
## 9229	1	0	315000.0	4	2	4
## 9230	1	0	315000.0	4	2	4
## 9336	0	0	382500.0	4	2	3
## 9337	0	0	382500.0	4	2	3
## 9338	0	0	382500.0	4	2	3
## 9414	0	0	157500.0	4	5	2
## 9415	0	0	157500.0	4	5	2
## 9416	0	0	157500.0	4	5	2
## 9478	0	0	90000.0	5	3	4
## 9562	1	1	405000.0	5	5	2
## 9563	1	1	405000.0	5	5	2
## 9564	1	1	405000.0	5	5	2
## 9641	0	0	148500.0	4	1	2
## 9642	0	0	148500.0	4	1	2
## 9643	0	0	148500.0	4	1	2
## 9663	0	2	405000.0	4	2	6
## 9664	0	2	405000.0	4	2	6
## 9670	0	1	427500.0	4	2	2
## 9671	0	1	427500.0	4	2	2
## 9672	0	1	427500.0	4	2	2
## 9798	0	0	144000.0	4	2	2
## 9799	0	0	144000.0	4	2	2
## 9199	0	0	144000.0	4	2	2
	0	2	90000.0		2	
## 9885 ## 9909	0	1	247500.0	4 5	3	3 2
ππ フフ∪ጛ	1.1		44/JUU.U	1		
## 9910	0	1	247500.0	5	3	2

```
## 9984
          0
                  1
                     810000.0
                                         2
                                               2
## 9985
                                         2
                                                2
          0
                  1
                     810000.0
                                   4
                                                2
## 9986
          0
                  1
                     810000.0
##
## $`Location of Outlier`
##
         1
                     9
                        10
                            20
                                21
                                    63
                                        64
                                            77
                                               223
                                                   224
                                                       240
                                                           250
                                                               251
   [1]
                   255
                       275
                                        396
                                           406
                                               407
                                                   408
                                                           493
                                                               494
##
  [16]
       252
           253
               254
                           276
                               394
                                   395
                                                        414
           556
                    560
                       561
                           562
                               575
                                   576
                                        642
                                           643
                                               654
                                                   698
                                                           702
##
   [31]
       555
               559
                                                       699
       740
                                                   964 1008 1009 1014
##
  [46]
           741
               809
                   810
                       864
                           865
                               925
                                   949
                                       950 951
                                               963
  [61] 1039 1040 1041 1042 1043 1072 1073 1079 1080 1117 1123 1124 1125 1133 1140
##
##
  [76] 1141 1142 1143 1144 1145 1156 1193 1194 1311 1312 1313 1367 1368 1369 1370
  [91] 1371 1374 1480 1481 1482 1503 1530 1531 1532 1603 1638 1662 1674 1675 1676
## [106] 1728 1729 1730 1744 1745 1746 1750 1751 1802 1811 1812 1868 1869 1917 1918
## [121] 1919 1920 1921 1924 1925 1928 1929 1930 1967 1968 1969 1980 1981 1982 1983
## [136] 2003 2042 2043 2044 2045 2063 2077 2099 2100 2131 2132 2162 2196 2198 2199
## [151] 2200 2263 2264 2265 2282 2283 2298 2299 2319 2320 2321 2325 2326 2331 2332
## [166] 2380 2417 2418 2434 2435 2436 2497 2498 2499 2500 2501 2502 2521 2522 2523
## [181] 2557 2558 2559 2560 2630 2631 2632 2657 2658 2695 2696 2700 2764 2801 2802
## [196] 2808 2809 2810 2811 2812 2813 2830 2860 2861 2896 2897 2898 2914 2915 2919
## [211] 2920 2921 2922 2954 2955 3012 3041 3042 3078 3197 3198 3199 3218 3219 3220
## [226] 3331 3332 3333 3334 3346 3347 3352 3353 3354 3359 3360 3384 3385 3450 3451
## [241] 3490 3491 3495 3570 3583 3584 3632 3633 3652 3677 3678 3695 3696 3766 3767
## [256] 3786 3816 3857 3858 3859 4076 4205 4206 4207 4239 4240 4241 4341 4342 4343
## [271] 4444 4445 4446 4447 4448 4483 4484 4505 4519 4520 4521 4588 4625 4647 4652
## [286] 4653 4682 4683 4801 4802 4803 4806 4807 4808 4809 4810 4811 4815 4832 4849
## [301] 4871 4872 4873 4884 4885 4899 4922 4923 4924 4933 4934 4935 4936 5007 5008
## [316] 5064 5220 5221 5222 5285 5286 5287 5313 5314 5315 5363 5364 5365 5428 5461
## [331] 5462 5463 5464 5523 5524 5590 5591 5592 5689 5690 5784 5785 5786 5975 5976
## [346] 6051 6052 6053 6166 6167 6168 6219 6220 6275 6276 6343 6344 6345 6375 6409
## [361] 6410 6462 6463 6471 6540 6541 6542 6543 6544 6576 6577 6610 6673 6674 6685
## [376] 6717 6733 6734 6777 6778 6779 6780 6781 6782 6783 6834 6879 6880 6881 6967
## [391] 7009 7010 7011 7024 7025 7033 7034 7035 7079 7080 7081 7123 7124 7183 7184
## [406] 7185 7199 7200 7210 7211 7212 7267 7268 7269 7326 7367 7368 7369 7399 7400
## [421] 7401 7411 7412 7428 7434 7437 7487 7499 7500 7501 7521 7522 7628 7629 7637
## [436] 7638 7649 7650 7651 7710 7711 7743 7744 7745 7746 7747 7756 7757 7775 7776
## [451] 7777 7778 7779 7780 7951 8206 8207 8208 8247 8248 8249 8425 8426 8427 8463
## [466] 8533 8549 8550 8590 8591 8592 8606 8732 8733 8734 8743 8744 8745 8746 8776
## [481] 8777 8778 8907 8908 8909 8920 8921 8922 8985 9039 9040 9228 9229 9230 9336
## [496] 9337 9338 9414 9415 9416 9478 9562 9563 9564 9641 9642 9643 9663 9664 9670
## [511] 9671 9672 9798 9799 9800 9885 9909 9910 9984 9985 9986
##
## $`Outlier Probability`
   ##
##
  ##
  ##
##
  ##
```

4/27/22, 11:24 PM ESE527-practice2

When k is 4, there are 521 outliers.

5. Density-based Approaches

a) Outlier detection using Robust Kernal-based Outlier Factor(RKOF) algorithm

This method is not suitable for our data set, so we would not use it here.

b) Outlier detection using genralised dispersion

```
x < -newdata[, 2:7]
disp(x,cutoff=0.99)
```

Synorthier num_child ann_income education marital housing 268 0 1 765000 5 2 2 269 0 1 765000 5 2 2 270 0 1 765000 5 2 2 271 0 1 765000 5 2 2 285 1 0 157500 5 4 4 286 1 0 157500 5 4 4 288 1 0 157500 5 4 4 289 1 0 157500 5 4 4 290 1 0 157500 5 4 4 291 1 0 157500 5 4 4 292 1 0 157500 5 4 4 293 1 0 157500 5 4							
268 0 1 765000 5 2 2 269 0 1 765000 5 2 2 270 0 1 765000 5 2 2 271 0 1 765000 5 2 2 285 1 0 157500 5 4 4 286 1 0 157500 5 4 4 287 1 0 157500 5 4 4 288 1 0 157500 5 4 4 289 1 0 157500 5 4 4 290 1 0 157500 5 4 4 291 1 0 157500 5 4 4 292 1 0 157500 5 4 4 293 1 0 157500 5 4	\$`Ou	tlier Ob	oservations	5`			
269 0 1 765000 5 2 2 270 0 1 765000 5 2 2 271 0 1 765000 5 2 2 285 1 0 157500 5 4 4 286 1 0 157500 5 4 4 287 1 0 157500 5 4 4 288 1 0 157500 5 4 4 289 1 0 157500 5 4 4 290 1 0 157500 5 4 4 291 1 0 157500 5 4 4 292 1 0 157500 5 4 4 292 1 0 157500 5 4 4 294 1 0 157500 5 4		gender	num_child	ann_income	education	marital	housing
270 0 1 765000 5 2 2 271 0 1 765000 5 2 2 285 1 0 157500 5 4 4 286 1 0 157500 5 4 4 287 1 0 157500 5 4 4 288 1 0 157500 5 4 4 289 1 0 157500 5 4 4 290 1 0 157500 5 4 4 291 1 0 157500 5 4 4 292 1 0 157500 5 4 4 292 1 0 157500 5 4 4 293 1 0 157500 5 4 4 294 1 0 157500 5 4	268	0	1	765000	5	2	2
2711 0 1 765000 5 2 2 2855 1 0 157500 5 4 4 286 1 0 157500 5 4 4 287 1 0 157500 5 4 4 288 1 0 157500 5 4 4 289 1 0 157500 5 4 4 290 1 0 157500 5 4 4 291 1 0 157500 5 4 4 292 1 0 157500 5 4 4 293 1 0 157500 5 4 4 293 1 0 157500 5 4 4 294 1 0 157500 5 4 4 297 1 0 157500 5 4	269	0	1	765000	5	2	2
2885 1 0 157500 5 4 4 2866 1 0 157500 5 4 4 287 1 0 157500 5 4 4 288 1 0 157500 5 4 4 289 1 0 157500 5 4 4 290 1 0 157500 5 4 4 291 1 0 157500 5 4 4 292 1 0 157500 5 4 4 293 1 0 157500 5 4 4 294 1 0 157500 5 4 4 295 1 0 157500 5 4 4 297 1 0 157500 5 4 4 298 1 0 157500 5 4	270	0	1	765000	5	2	2
286 1 0 157500 5 4 4 287 1 0 157500 5 4 4 288 1 0 157500 5 4 4 289 1 0 157500 5 4 4 290 1 0 157500 5 4 4 291 1 0 157500 5 4 4 291 1 0 157500 5 4 4 292 1 0 157500 5 4 4 293 1 0 157500 5 4 4 294 1 0 157500 5 4 4 295 1 0 157500 5 4 4 296 1 0 157500 5 4 4 297 1 0 157500 5 4 4 298 1 0 157500 5 4 4	271	0	1	765000	5	2	2
287 1 0 157500 5 4 4 288 1 0 157500 5 4 4 289 1 0 157500 5 4 4 290 1 0 157500 5 4 4 291 1 0 157500 5 4 4 292 1 0 157500 5 4 4 293 1 0 157500 5 4 4 293 1 0 157500 5 4 4 294 1 0 157500 5 4 4 295 1 0 157500 5 4 4 296 1 0 157500 5 4 4 297 1 0 157500 5 4 4 299 1 0 157500 5 4 4 338 0 0 229500 3 2 5	285	1	0	157500	5	4	4
288 1 0 157500 5 4 4 289 1 0 157500 5 4 4 290 1 0 157500 5 4 4 291 1 0 157500 5 4 4 292 1 0 157500 5 4 4 293 1 0 157500 5 4 4 294 1 0 157500 5 4 4 295 1 0 157500 5 4 4 296 1 0 157500 5 4 4 297 1 0 157500 5 4 4 299 1 0 157500 5 4 4 299 1 0 157500 5 4 4 299 1 0 157500 5 4 4 338 0 0 229500 3 2 5	286	1	0	157500	5	4	4
289 1 0 157500 5 4 4 290 1 0 157500 5 4 4 291 1 0 157500 5 4 4 292 1 0 157500 5 4 4 293 1 0 157500 5 4 4 294 1 0 157500 5 4 4 295 1 0 157500 5 4 4 296 1 0 157500 5 4 4 297 1 0 157500 5 4 4 299 1 0 157500 5 4 4 299 1 0 157500 5 4 4 299 1 0 157500 5 4 4 338 0 0 229500 3 2 5 341 0 0 229500 3 2 5	287	1	0	157500	5	4	4
290 1 0 157500 5 4 4 291 1 0 157500 5 4 4 292 1 0 157500 5 4 4 293 1 0 157500 5 4 4 294 1 0 157500 5 4 4 295 1 0 157500 5 4 4 296 1 0 157500 5 4 4 297 1 0 157500 5 4 4 299 1 0 157500 5 4 4 388 0 0 229500 3 2 5 3840 0 0 229500 3 2 5 341 0 0 229500 3 2 5 342 0 0 229500 3 2	288	1	0	157500	5	4	4
291 1 0 157500 5 4 4 292 1 0 157500 5 4 4 293 1 0 157500 5 4 4 294 1 0 157500 5 4 4 295 1 0 157500 5 4 4 296 1 0 157500 5 4 4 297 1 0 157500 5 4 4 298 1 0 157500 5 4 4 299 1 0 157500 5 4 4 299 1 0 157500 5 4 4 3338 0 0 229500 3 2 5 3441 0 0 229500 3 2 5 3442 0 0 229500 3 2 5 3444 0 0 229500 3 2 5	289	1	0	157500	5	4	4
292 1 0 157500 5 4 4 293 1 0 157500 5 4 4 294 1 0 157500 5 4 4 295 1 0 157500 5 4 4 296 1 0 157500 5 4 4 297 1 0 157500 5 4 4 298 1 0 157500 5 4 4 299 1 0 157500 5 4 4 299 1 0 157500 5 4 4 338 0 0 229500 3 2 5 344 0 0 229500 3 2 5 341 0 0 229500 3 2 5 343 0 0 229500 3 2	290	1	0	157500	5	4	4
93 1 0 157500 5 4 4 94 1 0 157500 5 4 4 95 1 0 157500 5 4 4 96 1 0 157500 5 4 4 97 1 0 157500 5 4 4 98 1 0 157500 5 4 4 99 1 0 157500 5 4 4 38 0 0 229500 3 2 5 40 0 0 229500 3 2 5 41 0 0 229500 3 2 5 41 0 0 229500 3 2 5 42 0 0 229500 3 2 5 43 0 0 229500 3 2 5 44 0 0 229500 3 2 2 <td< td=""><td>91</td><td>1</td><td>0</td><td>157500</td><td>5</td><td>4</td><td>4</td></td<>	91	1	0	157500	5	4	4
194 1 0 157500 5 4 4 195 1 0 157500 5 4 4 196 1 0 157500 5 4 4 197 1 0 157500 5 4 4 198 1 0 157500 5 4 4 199 1 0 157500 5 4 4 189 1 0 157500 5 4 4 189 1 0 157500 5 4 4 189 0 0 229500 3 2 5 140 0 0 229500 3 2 5 141 0 0 229500 3 2 5 142 0 0 229500 3 2 5 144 0 0 229500 3 2	92	1	0	157500	5	4	4
295 1 0 157500 5 4 4 296 1 0 157500 5 4 4 297 1 0 157500 5 4 4 299 1 0 157500 5 4 4 299 1 0 157500 5 4 4 388 0 0 229500 3 2 5 389 0 0 229500 3 2 5 3410 0 0 229500 3 2 5 3411 0 0 229500 3 2 5 342 0 0 229500 3 2 5 343 0 0 229500 3 2 5 344 0 0 229500 3 2 5 345 0 0 229500 3 2 5 347 0 0 180000 2 2 2	293	1	0	157500	5	4	4
196 1 0 157500 5 4 4 197 1 0 157500 5 4 4 198 1 0 157500 5 4 4 199 1 0 157500 5 4 4 138 0 0 229500 3 2 5 140 0 0 229500 3 2 5 141 0 0 229500 3 2 5 141 0 0 229500 3 2 5 142 0 0 229500 3 2 5 143 0 0 229500 3 2 5 144 0 0 229500 3 2 5 144 0 0 229500 3 2 2 187 0 0 180000 2 2	94	1	0	157500	5	4	4
296 1 0 157500 5 4 4 297 1 0 157500 5 4 4 298 1 0 157500 5 4 4 299 1 0 157500 5 4 4 338 0 0 229500 3 2 5 340 0 0 229500 3 2 5 341 0 0 229500 3 2 5 341 0 0 229500 3 2 5 342 0 0 229500 3 2 5 343 0 0 229500 3 2 5 344 0 0 229500 3 2 5 345 0 0 229500 3 2 5 487 0 0 180000 2 2 2 488 0 0 180000 2 2 2	295	1	0		5	4	4
297 1 0 157500 5 4 4 298 1 0 157500 5 4 4 299 1 0 157500 5 4 4 338 0 0 229500 3 2 5 3399 0 0 229500 3 2 5 340 0 0 229500 3 2 5 341 0 0 229500 3 2 5 342 0 0 229500 3 2 5 343 0 0 229500 3 2 5 344 0 0 229500 3 2 5 347 0 0 180000 2 2 2 488 0 0 180000 2 2 2 489 0 0 180000 2 2							
298 1 0 157500 5 4 4 299 1 0 157500 5 4 4 338 0 0 229500 3 2 5 339 0 0 229500 3 2 5 340 0 0 229500 3 2 5 341 0 0 229500 3 2 5 342 0 0 229500 3 2 5 343 0 0 229500 3 2 5 344 0 0 229500 3 2 5 345 0 0 229500 3 2 5 345 0 0 229500 3 2 5 487 0 0 180000 2 2 2 488 0 0 180000 2 2 2 499 0 0 180000 2 2 2		1	0		5	4	4
299 1 0 157500 5 4 4 338 0 0 229500 3 2 5 339 0 0 229500 3 2 5 340 0 0 229500 3 2 5 341 0 0 229500 3 2 5 342 0 0 229500 3 2 5 343 0 0 229500 3 2 5 344 0 0 229500 3 2 5 345 0 0 229500 3 2 5 345 0 0 229500 3 2 5 387 0 0 180000 2 2 2 2 488 0 0 180000 2 2 2 2 489 0 0 180000 2 2 2 2 499 0 0 180000 5 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
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3339 0 0 229500 3 2 5 340 0 0 229500 3 2 5 341 0 0 229500 3 2 5 342 0 0 229500 3 2 5 343 0 0 229500 3 2 5 344 0 0 229500 3 2 5 345 0 0 229500 3 2 5 487 0 0 180000 2 2 2 488 0 0 180000 2 2 2 489 0 0 180000 2 2 2 490 0 0 180000 2 2 2 493 1 0 900000 5 3 2 494 1 0 900000 5 3 2 642 0 1 112500 4 4 5							
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797 0 0 1350000 5 2 3 798 0 0 1350000 5 2 3 799 0 0 1350000 5 2 3 929 0 0 360000 4 4 4 930 0 0 360000 4 4 4 931 0 0 360000 4 4 4 932 0 0 360000 4 4 4 933 0 0 360000 4 4 4							
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	## 1231 ## 1232	0	0	135000	2	2	4
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	## 1280	0	1	562500	3	2	2
	## 1281	0	1	562500	3	2	2
	## 1282	0	1	562500	3	2	2
	## 1283	0	1	562500	3	2	2
	## 1284	0	1	562500	3	2	2
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	## 1520	0	1	450000	5	2	6

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## 9471	0	0	135000	5	2	6

```
## 9472
             0
                        0
                              135000
                                              5
                                                      2
                                                               6
## 9473
                        0
                                              5
                                                      2
                                                               6
             0
                              135000
                                              5
## 9478
             0
                        0
                               90000
                                                      3
                                                               4
## 9479
                                              2
                                                               2
             1
                        1
                              157500
                                                      1
## 9480
             1
                        1
                              157500
                                              2
                                                      1
                                                               2
## 9481
             1
                        1
                                              2
                                                      1
                                                               2
                              157500
                                                               2
                                              2
## 9482
             1
                        1
                              157500
                                                      1
## 9483
                                              2
                                                               2
             1
                        1
                              157500
                                                      1
                        2
## 9663
             0
                              405000
                                              4
                                                      2
                                                               6
                        2
## 9664
             0
                              405000
                                              4
                                                      2
                                                               6
## 9753
             0
                        0
                              900000
                                              5
                                                      2
                                                               2
                                              5
                                                      2
                                                               2
## 9754
             0
                        0
                              900000
## 9755
             0
                        0
                              900000
                                              5
                                                      2
                                                               2
                                              5
                                                      2
                                                               2
## 9756
                        0
             0
                              900000
## 9757
                        0
                                              5
                                                      2
                                                               2
             0
                              900000
## 9925
             0
                        0
                              135000
                                              2
                                                      2
                                                               2
                        0
                                              2
                                                      2
                                                               2
## 9926
             0
                              135000
                                              2
## 9927
                        0
                              135000
                                                      2
                                                               2
## 9928
                                              2
                                                      2
                                                               2
             0
                        0
                              135000
## 9929
                        0
                                              2
                                                      2
                                                               2
             0
                              135000
## 9930
                        0
                                              2
                                                      2
                                                               2
             0
                              135000
                                                      2
                                                               2
## 9984
                        1
                              810000
                                              4
## 9985
             0
                        1
                              810000
                                              4
                                                      2
                                                               2
                                                      2
                                                               2
## 9986
             0
                        1
                              810000
                                              4
##
## $\Location of Outlier\
               269
                                         287
                                               288
                                                    289
                                                         290
                                                               291
                                                                    292
                                                                               294
                                                                                    295
##
     [1]
          268
                    270 271
                              285
                                    286
                                                                         293
    [16]
          296
               297
                    298
                          299
                               338
                                    339
                                         340
                                               341
                                                    342
                                                          343
                                                               344
                                                                    345
                                                                               488
                                                                                    489
##
                                                                         487
               493
                    494
                          555
                               556
                                    642
                                         643
                                               793
                                                    794
                                                          795
                                                               796
                                                                    797
                                                                         798
##
    f 311
          490
##
    [46]
         930
               931 932
                         933 934
                                    935
                                         936 937
                                                    938 1042 1043 1133 1193 1194 1228
    [61] 1229 1230 1231 1232 1233 1234 1235 1236 1237 1277 1278 1279 1280 1281 1282
##
    [76] 1283 1284 1285 1286 1287 1288 1289 1290 1291 1292 1293 1294 1295 1296 1297
    [91] 1298 1299 1300 1476 1477 1478 1479 1516 1517 1518 1519 1520 1521 1522 1523
##
## [106] 1524 1525 1526 1527 1528 1529 1677 1678 1679 1680 1958 1959 1960 1961 1962
## [121] 1963 1964 1967 1968 1969 1982 1983 2004 2005 2006 2007 2008 2009 2010 2011
## [136] 2042 2043 2044 2068 2069 2070 2071 2072 2073 2074 2075 2076 2162 2210 2211
## [151] 2212 2213 2331 2332 2516 2517 2518 2519 2520 2526 2527 2528 2529 2530 2531
## [166] 2532 2533 2534 2535 2536 2811 2812 2813 2919 2954 2955 3012 3197 3198 3199
## [181] 3416 3417 3418 3419 3420 3421 3422 3423 3424 3570 3583 3584 3677 3678 3915
## [196] 3916 3917 3918 3919 3981 3982 3983 3984 3985 4617 4618 4619 4620 4755 4806
## [211] 4874 4875 4876 4877 4878 4879 4880 4881 4882 4883 5064 5104 5105 5106 5107
## [226] 5108 5109 5288 5289 5290 5291 5292 5293 5294 5295 5313 5314 5315 5347 5348
## [241] 5349 5350 5351 5352 5353 5379 5380 5381 5382 5383 5384 5461 5584 5585 5586
## [256] 5587 5588 5589 5722 5723 5724 5725 5726 5727 5728 5729 5730 5975 5976 6176
## [271] 6177 6178 6179 6180 6181 6182 6183 6184 6185 6186 6238 6239 6240 6241 6494
## [286] 6495 6496 6497 6498 6499 6500 6780 6781 6782 7009 7010 7011 7112 7113 7114
## [301] 7115 7138 7139 7140 7141 7142 7143 7144 7145 7146 7147 7148 7210 7211 7212
## [316] 7302 7303 7304 7305 7306 7307 7311 7312 7313 7314 7315 7316 7326 7639 7640
## [331] 7641 7642 7643 7644 7645 7646 7647 7648 7656 7657 7658 7659 7660 7661 7662
## [346] 7663 7664 7665 7666 7667 7668 7669 7743 7744 7745 7793 7794 7795 7796 7797
## [361] 7798 7799 7800 7801 7802 7803 7804 7952 7953 7954 7955 7956 7957 8427 8463
## [376] 8482 8483 8484 8485 8486 8537 8538 8539 8540 8541 8542 8543 8544 8545 8546
```

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```
## [391] 8547 8548 8606 8706 8707 8708 8709 8710 8711 8712 8713 8714 8715 8716 8735
## [406] 8736 8737 8738 8739 8750 8751 8752 8753 8754 8755 8756 8757 8910 8911 8912
## [421] 8913 8914 8915 8916 8917 8918 8919 8969 8970 8971 8972 9119 9120 9121 9122
## [436] 9123 9124 9125 9130 9131 9132 9133 9134 9135 9136 9137 9138 9139 9140 9141
## [451] 9142 9310 9311 9312 9313 9314 9315 9316 9317 9318 9319 9320 9321 9469 9470
## [466] 9471 9472 9473 9478 9479 9480 9481 9482 9483 9663 9664 9753 9754 9755 9756
## [481] 9757 9925 9926 9927 9928 9929 9930 9984 9985 9986
##
## $`Outlier Probability`
 ##
##
## [316] 1.00 1.00 1.00 1.00 1.00 1.00 0.98 0.98 0.98 0.98 0.98 1.00 1.00 1.00
## [481] 1.00 0.65 0.65 0.65 0.65 0.65 0.65 1.00 1.00 1.00
```

When the threshold is 0.99, there are 490 outliers.

6. Join assessment of outlier detection methods using techniques described under 2 to 5.

```
x<-newdata[,2:7]
OutlierDetection(x)</pre>
```

.,		oservations				
#	_	_	ann_income			housing
# 1	0	0	427500	5	1	1
# 2	0	0	427500	5	1	1
# 28	0	3	270000	4	2	2
# 29	0	3	270000	4	2	2
# 217	1	0	255150	3	1	1
# 218	1	0	255150	3	1	1
# 219	1	0	255150	3	1	1
# 220	1	0	255150	3	1	1
# 221	1	0	255150	3	1	1
# 222	1	0	255150	3	1	1
# 250	1	0	270000	3	1	3
# 251	1	0	270000	3	1	3
# 252	1	0	270000	3	1	3
# 255	0	1	180000	4	2	4
# 268	0	1	765000	5	2	2
# 269	0	1	765000	5	2	2
# 270	0	1	765000	5	2	2
# 271	0	1	765000	5	2	2
# 277	0	2	157500	4	2	4
# 278	0	2	157500	4	2	4
# 279	0	2	157500	4	2	4
		2		4		
	0		157500	_	2	4
# 281	0	2	157500	4	2	4
285	1	0	157500	5	4	4
¥ 286	1	0	157500	5	4	4
≠ 287	1	0	157500	5	4	4
288	1	0	157500	5	4	4
¥ 289	1	0	157500	5	4	4
[#] 290	1	0	157500	5	4	4
≠ 291	1	0	157500	5	4	4
# 292	1	0	157500	5	4	4
[‡] 293	1	0	157500	5	4	4
294	1	0	157500	5	4	4
[‡] 295	1	0	157500	5	4	4
≠ 296	1	0	157500	5	4	4
¥ 297	1	0	157500	5	4	4
¥ 298	1	0	157500	5	4	4
¥ 299	1	0	157500	5	4	4
¥ 300	0	0	382500	4	5	2
≠ 301	0	0	382500	4	5	2
# 302	0	0	382500	4	5	2
# 303	0	0	382500	4	5	2
# 304	0	0	382500	4	5	2
# 30 4	0	0	382500	4	5	2
					5	
# 306	0	0	382500	4		2
# 307	0	0	382500	4	5	2
# 338	0	0	229500	3	2	5
# 339	0	0	229500	3	2	5
# 340	0	0	229500	3	2	5
# 341	0	0	229500	3	2	5

##	342	0	0	229500	3	2	5
##	343	0	0	229500	3	2	5
##	344	0	0	229500	3	2	5
##	345	0	0	229500	3	2	5
##	389	0	0	157500	3	2	4
##	390	0	0	157500	3	2	4
##	391	0	0	157500	3	2	4
##	392	0	0	157500	3	2	4
##	393	0	0	157500	3	2	4
##	409	1	0	202500	5	2	4
##	410	1	0	202500	5	2	4
##	411	1	0	202500	5	2	4
##	412	1	0	202500	5	2	4
##	413	1	0	202500	5	2	4
##	415	0	0	337500	5	2	4
##	416	0	0	337500	5	2	4
##	417	0	0	337500	5	2	4
##	418	0	0	337500	5	2	4
##	419	0	0	337500	5	2	4
##	487	0	0	180000	2	2	2
##	488	0	0	180000	2	2	2
##	489	0	0	180000	2	2	2
##	490	0	0	180000	2	2	2
##	493	1	0	900000	5	3	2
##	494	1	0	900000	5	3	2
##	555	0	0	108000	4	3	5
##	556	0	0	108000	4	3	5
##	559	0	0	198000	4	3	4
##	560	0	0	198000	4	3	4
##	577	0	0	81000	4	2	4
##	578	0	0	81000	4	2	4
##	579	0	0	81000	4	2	4
##	642	0	1	112500	4	4	5
##	643	0	1	112500	4	4	5
##	746	0	0	202500	4	3	4
##	747	0	0	202500	4	3	4
##	793	0	0	1350000	5	2	3
##	794	0	0	1350000	5	2	3
##	795	0	0	1350000	5	2	3
##	796	0	0	1350000	5	2	3
##	797	0	0	1350000	5	2	3
##	798	0	0	1350000	5	2	3
##	799	0	0	1350000	5	2	3
##	809	1	0	135000	4	1	4
##	810	1	0	135000	4	1	4
##	864	0	2	445500	5	2	3
##	865	0	2	445500	5	2	3
##	911	0	0	166500	5	2	4
##	912	0	0	166500	5	2	4
##	913	0	0	166500	5	2	4
##	914	0	0	166500	5	2	4
##	915	0	0	166500	5	2	4

##	916	0	0	166500	5	2	4
##	917	0	0	166500	5	2	4
##	929	0	0	360000	4	4	4
##	930	0	0	360000	4	4	4
##	931	0	0	360000	4	4	4
##	932	0	0	360000	4	4	4
##	933	0	0	360000	4	4	4
##	934	0	0	360000	4	4	4
##	935	0	0	360000	4	4	4
##	936	0	0	360000	4	4	4
##	937	0	0	360000	4	4	4
##	938	0	0	360000	4	4	4
##	1042	0	2	157500	4	2	6
##	1043	0	2	157500	4	2	6
##	1072	1	0	99000	5	3	4
##	1073	1	0	99000	5	3	4
##	1115	1	0	360000	4	5	2
##	1116	1	0	360000	4	5	2
##	1133	1	0	112500	3	3	4
##	1193	0	0	202500	2	2	2
##	1194	0	0	202500	2	2	2
##	1228	0	0	135000	2	2	4
##	1229	0	0	135000	2	2	4
##	1230	0	0	135000	2	2	4
##	1231	0	0	135000	2	2	4
##	1232	0	0	135000	2	2	4
##	1233	0	0	135000	2	2	4
##	1234	0	0	135000	2	2	4
##	1235	0	0	135000	2	2	4
##	1236	0	0	135000	2	2	4
##	1237	0	0	135000	2	2	4
##	1277	0	1	562500	3	2	2
##	1278	0	1	562500	3	2	2
##	1279	0	1	562500	3	2	2
##	1280	0	1	562500	3	2	2
##	1281	0	1	562500	3	2	2
##	1282	0	1	562500	3	2	2
##	1283	0	1	562500	3	2	2
##	1284	0	1	562500	3	2	2
##	1285	0	1	562500	3	2	2
##	1286	0	1	562500	3	2	2
##	1287	0	1	562500	3	2	2
##	1288	0	1	562500	3	2	2
##	1289	0	1	562500	3	2	2
##	1290	0	1	562500	3	2	2
##	1291	0	1	562500	3	2	2
##	1292	0	1	562500	3	2	2
	1293	0	1	562500	3	2	2
	1294	0	1	562500	3	2	2
##	1295	0	1	562500	3	2	2
##	1296	0	1	562500	3	2	2
##	1297	0	1	562500	3	2	2

##	1298	0	1	562500	3	2	2
##	1299	0	1	562500	3	2	2
##	1300	0	1	562500	3	2	2
##	1367	1	0	126000	4	3	4
##	1368	0	1	180000	3	2	4
##	1369	0	1	180000	3	2	4
##	1399	1	0	540000	5	2	2
##	1400	1	0	540000	5	2	2
##	1401	1	0	540000	5	2	2
##	1402	1	0	540000	5	2	2
##	1403	1	0	540000	5	2	2
##	1404	1	0	540000	5	2	2
##	1405	1	0	540000	5	2	2
##	1406	1	0	540000	5	2	2
##	1407	1	0	540000	5	2	2
##	1476	0	0	675000	5	2	2
##	1477	0	0	675000	5	2	2
##	1478	0	0	675000	5	2	2
##	1479	0	0	675000	5	2	2
##	1516	0	1	450000	5	2	6
##	1517	0	1	450000	5	2	6
##	1518	0	1	450000	5	2	6
##	1519	0	1	450000	5	2	6
##	1520	0	1	450000	5	2	6
##	1521	0	1	450000	5	2	6
##	1522	0	1	450000	5	2	6
##	1523	0	1	450000	5	2	6
##	1524	0	1	450000	5	2	6
##	1525	0	1	450000	5	2	6
##	1526	0	1	450000	5	2	6
##	1527	0	1	450000	5	2	6
##	1528	0	1	450000	5	2	6
##	1529	0	1	450000	5	2	6
##	1677	0	0	202500	3	1	4
##	1678	0	0	202500	3	1	4
	1679	0	0	202500	3	1	4
##	1680	0	0	202500	3	1	4
##		1	0	135000	5	2	4
	1745	1	0	135000	5	2	4
##	1746	1	0	135000	5	2	4
##		1	0	54000	2	2	2
	1812	1	0	54000	2	2	2
	1868	1	0	94500	4	5	1
##	1869	1	0	94500	4	5	1
##	1958	0	2	99000	4	2	4
	1959	0	2	99000	4	2	4
	1960	0	2	99000	4	2	4
	1961	0	2	99000	4	2	4
	1962	0	2	99000	4	2	4
	1963	0	2	99000	4	2	4
	1964	0	2	99000	4	2	4
##	1967	1	1	135000	1	1	2

## 1968	1	1	135000	1	1	2
## 1969	1	1	135000	1	1	2
## 1982	0	2	697500	5	4	2
## 1983	0	2	697500	5	4	2
## 2004	1	1	675000	5	2	2
## 2005	1	1	675000	5	2	2
## 2006	1	1	675000	5	2	2
## 2007	1	1	675000	5	2	2
## 2008	1	1	675000	5	2	2
## 2009	1	1	675000	5	2	2
## 2010	1	1	675000	5	2	2
## 2011	1	1	675000	5	2	2
## 2034	1	0	90000	2	2	2
## 2035	1	0	90000	2	2	2
## 2036	1	0	90000	2	2	2
## 2037	1	0	90000	2	2	2
## 2038	1	0	90000	2	2	2
## 2039	1	0	90000	2	2	2
## 2040	1	0	90000	2	2	2
## 2041	1	0	90000	2	2	2
## 2042	0	1	675000	5	2	2
## 2043	0	1	675000	5	2	2
## 2043 ## 2044	0	1	675000	5	2	2
## 2044	1	0	225000	5	3	4
## 2063 ## 2068	1	0	675000	4	1	2
	1	0	675000	4	1	2
## 2070	1	0	675000	4	1	2
## 2071	1	0	675000	4	1	2
## 2072	1	0	675000	4	1	2
## 2073	1	0	675000	4	1	2
## 2074	1	0	675000	4	1	2
## 2075	1	0	675000	4	1	2
## 2076	1	0	675000	4	1	2
## 2162	0	1	472500	5	2	4
## 2191	0	3	270000	5	2	2
## 2192	0	3	270000	5	2	2
## 2193	0	3	270000	5	2	2
## 2194	0	3	270000	5	2	2
## 2195	0	3	270000	5	2	2
## 2210	1	2	67500	3	2	4
## 2211	1	2	67500	3	2	4
## 2212	1	2	67500	3	2	4
## 2213	1	2	67500	3	2	4
## 2241	1	0	189000	3	5	2
## 2242	1	0	189000	3	5	2
## 2243	1	0	189000	3	5	2
## 2244	1	0	189000	3	5	2
## 2245	1	0	189000	3	5	2
## 2246	1	0	189000	3	5	2
## 2247	1	0	189000	3	5	2
## 2248	1	0	189000	3	5	2
## 2249	1	0	189000	3	5	2

						-	
##	2250	1	0	189000	3	5	2
##	2251	1	0	189000	3	5	2
##	2278	1	0	121500	4	2	4
##	2279	1	0	121500	4	2	4
##	2280	1	0	121500	4	2	4
##	2281	1	0	121500	4	2	4
##	2319	0	0	135000	4	1	4
##	2320	0	0	135000	4	1	4
##	2321	0	0	135000	4	1	4
##	2331	0	4	292500	4	2	2
##	2332	0	4	292500	4	2	2
##	2355	1	0	112500	5	5	2
##	2356	1	0	112500	5	5	2
##	2357	1	0	112500	5	5	2
##	2358	0	0	135000	4	2	4
##	2437	1	3	126000	5	2	2
##	2438	1	3	126000	5	2	2
##	2439	1	3	126000	5	2	2
##	2440	1	3	126000	5	2	2
##	2500	0	2	337500	3	2	2
##	2501	0	2	337500	3	2	2
##	2502	0	2	337500	3	2	2
	2516	1	2	202500	2	2	2
##	2517	1	2	202500	2	2	2
	2518	1	2	202500	2	2	2
	2519	1	2	202500	2	2	2
##	2520	1	2	202500	2	2	2
##	2526	1	1	630000	4	2	2
	2527	1	1	630000	4	2	2
##	2528	1	1	630000	4	2	2
##	2529	1	1	630000	4	2	2
	2530	1	1	630000	4	2	2
	2531	1	1	630000	4	2	2
	2532	1	1	630000	4	2	2
	2532	1	1	630000	4	2	2
	2534	1	1	630000	4	2	2
	2535	1	1	630000	4	2	2
	2536	1	1	630000	4	2	2
	2539	1	0	135000	5	5	2
	2560	1	0	432000	3	2	2
	2561		0		4	2	4
	2562	1	0	112500 112500	4	2	4
					4		
	2563 2564	1	0	112500	4	2	4
		1	0	112500			4
	2565 2566	1	0	112500	4	2	4
		1		112500	4	2	4
	2567	1	0	112500	4	2	4
	2568		0	112500			4
	2569	1	0	112500	4	2	4
	2633	1	1	135000	4	1	4
	2634	1	1	135000	4	1	4
##	2635	1	1	135000	4	1	4

## 2636	1	1	135000	4	1	4
## 2637	1	1	135000	4	1	4
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## 7212	0	0	225000	4	2	6
## 7225	0	0	337500	4	3	4
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## 8230	0	2	180000	4	2	4
## 8237	0	2	180000	4	2	4
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	v	v	T 2 2 0 0 0	J	J	4

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## 8316	0	0	135000	5	3	4
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	##	9564	1	1	405000	5	5	2
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	##	9995	1		0		90000)	2	2	3		2				
	##	9996	1		0		90000)	2	2	3		2				
	##																
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	##	[113]	937											1228			
	##	[127]															
	##																
	##	[141] [155]															
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	##	[617]															
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   [687] 6402 6471 6494 6495 6496 6497 6498 6499 6500 6540 6541 6542 6543 6544
   [701] 6626 6627 6628 6629 6630 6685 6705 6706 6707 6708 6709 6710 6711 6712
   [715] 6713 6714 6715 6716 6780 6781 6782 6846 6847 6848 6849 6850 6903 6904
##
   [729] 6905 6906 6907 6908 6909 7009 7010 7011 7082 7083 7084 7085 7086 7112
##
##
   [743] 7113 7114 7115 7132 7133 7134 7135 7136 7137 7138 7139 7140 7141 7142
   [757] 7143 7144 7145 7146 7147 7148 7186 7187 7188 7189 7190 7191 7192 7193
   [771] 7210 7211 7212 7225 7226 7227 7228 7229 7230 7231 7232 7233 7234 7267
##
   [785] 7268 7269 7302 7303 7304 7305 7306 7307 7311 7312 7313 7314 7315 7316
##
   [799] 7326 7367 7368 7369 7418 7419 7420 7421 7422 7423 7424 7425 7435 7436
##
##
   [813] 7499 7500 7501 7633 7634 7635 7636 7639 7640 7641 7642 7643 7644 7645
   [827] 7646 7647 7648 7656 7657 7658 7659 7660 7661 7662 7663 7664 7665 7666
##
##
   [841] 7667 7668 7669 7727 7728 7729 7730 7731 7732 7733 7734 7735 7736 7743
   [855] 7744 7745 7775 7776 7777 7793 7794 7795 7796 7797 7798 7799 7800 7801
##
   [869] 7802 7803 7804 7951 7952 7953 7954 7955 7956 7957 8236 8237 8238 8315
##
##
   [883] 8316 8317 8318 8427 8463 8482 8483 8484 8485 8486 8509 8510 8511 8512
   [897] 8537 8538 8539 8540 8541 8542 8543 8544 8545 8546 8547 8548 8590 8591
##
   [911] 8592 8606 8661 8662 8663 8664 8665 8666 8667 8668 8669 8670 8671 8706
##
   [925] 8707 8708 8709 8710 8711 8712 8713 8714 8715 8716 8735 8736 8737 8738
##
   [939] 8739 8750 8751 8752 8753 8754 8755 8756 8757 8788 8789 8790 8791 8792
##
   [953] 8793 8794 8907 8908 8909 8910 8911 8912 8913 8914 8915 8916 8917 8918
##
   [967] 8919 8920 8921 8922 8954 8955 8956 8957 8958 8959 8960 8961 8962 8963
##
##
   [981] 8964 8965 8966 8967 8968 8969 8970 8971 8972 8974 8975 8976 8977 8978
   [995] 9051 9052 9053 9054 9119 9120 9121 9122 9123 9124 9125 9130 9131 9132
##
## [1009] 9133 9134 9135 9136 9137 9138 9139 9140 9141 9142 9228 9229 9230 9310
## [1023] 9311 9312 9313 9314 9315 9316 9317 9318 9319 9320 9321 9414 9415 9416
## [1037] 9469 9470 9471 9472 9473 9478 9479 9480 9481 9482 9483 9504 9505 9506
## [1051] 9507 9508 9509 9510 9562 9563 9564 9634 9635 9636 9637 9638 9639 9663
## [1065] 9664 9753 9754 9755 9756 9757 9824 9825 9826 9827 9828 9829 9925 9926
## [1079] 9927 9928 9929 9930 9984 9985 9986 9990 9991 9992 9993 9994 9995 9996
```

edit(OutlierDetection)

```
## function (x, k = 0.05 * nrow(x), cutoff = 0.95, Method = "euclidean",
       rnames = FALSE, depth = FALSE, dense = FALSE, distance = FALSE,
##
##
       dispersion = FALSE)
## {
##
       data = x
##
       out = OutlierDetection::maha(x, cutoff = 0.95)$"Location of Outlier"
##
       if (dispersion == FALSE) {
           out = out
##
##
       }
##
       else {
##
           out2 = OutlierDetection::disp(x, cutoff = 0.95)$"Location of Outlier"
##
           out = intersect(out2, out)
##
       }
##
       if (distance == FALSE) {
##
           out = out
##
       }
       else {
##
##
           out3 = OutlierDetection::nn(x, k = 0.05 * nrow(x), cutoff = 0.95,
##
               Method = "euclidean", rnames = F)$"Location of Outlier"
##
           out4 = OutlierDetection::nnk(x, k = 0.05 * nrow(x), cutoff = 0.95,
               Method = "euclidean", rnames = F)$"Location of Outlier"
##
##
           out = intersect(intersect(out3, out), intersect(out4,
##
               out))
##
       }
##
       if (depth == FALSE) {
           out = out
##
##
       }
##
       else {
           out5 = OutlierDetection::depthout(x)$"Location of Outlier"
##
##
           out = intersect(out5, out)
##
       }
##
       if (dense == FALSE) {
##
           out = out
##
       }
##
       else {
##
           out5 = OutlierDetection::dens(x)$"Location of Outlier"
           out = intersect(out5, out)
##
##
       }
       if (ncol(x) == 2) {
##
           d = 1:nrow(data)
##
           Class = c()
##
##
           Class = rep("Normal", length(d))
##
           for (i in 1:length(out)) {
##
               Class[d == out[i]] = "Outlier"
##
           }
           cols <- c(Outlier = "red", Normal = "blue")</pre>
##
##
           if (rnames == T) {
               s = subset(data, Class == "Outlier")
##
##
               gplot = ggplot2::ggplot(data, aes(data[, 1], data[,
##
                    2])) + geom point(aes(colour = Class, pch = Class)) +
                    geom_text(data = s, aes(x = s[, 1], y = s[, 2],
##
##
                      label = rownames(s)), colour = "Red", hjust = "inward",
```

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```
check_overlap = T) + ggtitle("Outlier plot") +
##
##
                   xlab("Variable1") + ylab("Variable2") + scale_color_manual(values = c
ols)
##
           }
           else {
##
##
               dd = cbind(data, 1:nrow(data))
##
               s = subset(dd, Class == "Outlier")
               gplot = ggplot2::ggplot(data, aes(data[, 1], data[,
##
##
                   2])) + geom_point(aes(colour = Class, pch = Class)) +
##
                   geom_text(data = s, aes(x = s[, 1], y = s[, 2],
##
                     label = s[, 3]), colour = "Red", hjust = "inward",
                     check_overlap = T) + ggtitle("Outlier plot") +
##
##
                   xlab("Variable1") + ylab("Variable2") + scale_color_manual(values = c
ols)
##
           }
##
           Out = x[out, ]
##
           1 = list(`Outlier Observations` = Out, `Location of Outlier` = out,
##
               `Scatter plot` = gplot)
##
       }
##
       else {
##
           Out = x[out, ]
##
           1 = list(`Outlier Observations` = Out, `Location of Outlier` = out)
##
       }
##
       return(1)
## }
## <environment: namespace:OutlierDetection>
```