```
> source("results_by_factors.r",echo=T)
> results.sales.by.grade.median<-by(results.7[,c("sales08","sales09","sales10","sales.total")],results.7$grade,summary)
> print(results.sales.by.grade.median)
results.74grade: A
sales89
Min. : 550
Min. : 980
Min. : 1180
Mic : 1180
Mic : 1235
Median : 1203
Median : 1236
Median
results:75grade: 8 soles09 soles10 soles.total Min. : 190 Min. : 628 Min. : 457 Min. : 1702 1st Qu.: 1900 1st Qu.: 3666 1st Qu.: 4203 1st Qu.: 12316 Median : 4277 Median : 1802 Median : 343173 Median : 35572 Median : 38663 Median : 125316 Median : 32572 Median : 38663 Median : 125316 Median : 32583 Median : 125316 Median : 32583 Median : 125316 Median : 32583 Medi
results:75grade: C
soles88 soles09 soles10 soles.total
Min. : 495 Min. : 345 Min. : 89 Min. : 1679
1st Qu.: 1938 1st Qu.: 3392 154 Qu.: 2388 1st Qu.: 2388 1st Qu.: 2388 1st Qu.: 2388 1st Qu.: 2388 212 Madian : 18874
Median : 5000 Madian : 2976 Median : 38212 Madian : 18874
Median : 17657 Median : 21986 Median : 38212 Man : 2024
Max. : 165800 Max. : 195615 Mas. : 635562 Max. : 99718
Max : 8 Max : 6 Max : 5 Max : 5 Max : 99718
   > results.sales.by.grade.trmean<-by(results.7[,c("sales08","sales09","sales10","sales.total")],results.7$grade,mean, trim=5, na.rm=T)
> print(results.sales.by.grade.trmean)
results.7$grade: A
sales08 sales09 sales10 sales.total
11236 16026 20300 44622
results.7$grade: B
sales08 sales09 sales10 sales.total
4947.0 10519.5 12310.0 32718.0
      results.7$grade: C
sales08 sales09 sales10 sales.total
5000 9276 9827 18874
      results:75grade: 8 jobs89 jobs10 jobs.total Min. : 8.00 Min. : 11.0 Min. : 6.0 Min. : 37.0 lst Qu.: 53.75 lst Qu.: 40.0 lst Qu.: 53.75 lst Qu.: 40.0 lst Qu.: 51.5 lst Qu.: 183.0 Median : 130.0 Median : 130.0 Median : 130.0 Median : 130.0 median : 615.70 Median : 645.3 Median : 520.7 Median : 1615.8 Median : 520.7 Median : 1615.8 Median : 520.7 Media
> print(results.jobs.by.grade.trmean)
results.75grade: A
jobs08 jobs09 jobs10 jobs.total
38 112 102 321
   results.7$grade: 8
jobs08 jobs09 jobs10 jobs.total
130.0 139.0 113.5 588.0
results.7$grade: C
jobs08 jobs09 jobs10 jobs.total
23 33 31 127
> results.corp.by.grade.median<-by(results.7[,c("corp08","corp09","corp10","corp.total")],results.7$grade,sum
> print(results.corp.by.grade.medion) results.73grade: A corps cor
results.75grade: 8 corp89 corp10 corp.total

Min. :1.000 Min. :1.000 Min. :1.000 Min. :3.0

1st Qu.: 2.000 Medin :5.62 Medin :5.66 Medin :3.769 Medin :17.0

Med :5.462 Medin :5.667 Medin :3.769 Medin :17.0

Mix. :3.1000 Mix. :4.400 Mix. :1.000 3rd Qu.: 5.000 Mix. :4.400 Mix. :3.000 Mix. :4.400 Mix. :4.500 Mix. :4.400 Mix. :4.500 Mix. :4.400 Mix. :4.500 Mix. :4.500
      | Min. | 1.00 | Min. | 1.000 | Min. 
      > results.corp.by.grade.trmean<-by(results.7[,c("corp08","corp09","corp10","corp.total")],results.7$grade,mean, tri
> print(results.corp.by.grade.trmean)
results.7$grade: A
corp08 corp09 corp10 corp.total
5.0 4.0 3.0 16.5
   results.7$grade: 8
corp08 corp09 corp10 corp.total
3 5 2 12
   results.7$grade: C
corp08 corp09 corp10 corp.total
5 2 2 12
      > results.export.by.grade.median<-by(results.7[,c("export08","export09","export10","export.total")],results.7$grade,summary)
   > print(results.export.by.grade.median)
results.75grade: A
export89 export90 export10 export.total
Min. : 48000 Min. : 18100 Min. : 18100 Min. : 268000
Median: 389500 Median: 399500 Median: 389500 Median: 488000 Median: 1610000
Median: 395501 Median: 399500 Median: 488000 Median: 1610000
Median: 395500 Median: 399500 Median: 488000 Median: 1610000
Median: 395500 Median: 395500 Median: 7898797 Mean
21950150 Median: 2553000 Median: 586433
3rd Qu.:2907250 3rd Qu.: 3175282 3rd Qu.: 27988975 3rd Qu.: 3490000
Max. : 7413000 Max. : 181902000 Max. : 25533000 Max. : 51138000
Ma's : 1 NA's : 2 Ma's : 4
      results.7$grade: B
export08
```

```
Min. 38000 Min. 588 Min. 3432 Min. 9486 Min. 116 Qu. 212194 Min. 94866 Median 38000 Median 38330 Median 38400 Median 38400 Median 38430 Median 38430
         results.78grade: C
export88
min. : 2000
Min. : 2458
Min. : 4382
Min. : 8340
Min. : 18376
Min. : 18376
Min. : 18376
Min. : 163716
Min
    > results.export.by.grade.tm
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              t09", "export10", "export.total")], results.7$qrade, mean, trim=5, na.rm=T)
    > print(results.export.by.grade.trmean)
results.75grade: A
export88 export89 export10 export.total
350500 390500 488000 1610000
    results.7%grade: 8
export08 export09 export10 export.total
353000.0 189330.5 394000.0 1219500.0
         results.7$grade: C
export08 export09 export10 export.total
375500 419000 630000 3110000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    e10", "income.total")], results.7$grade[household],su .... [TRUNCATED]
    > print(results.income.household.by.grade.medion)
results.7$grode(Pousehold]: A
income@9 income@9
Min. : 2.00 Min. : 1.00 income.10 income.total
st Qu.: 10.50 lst Qu.: 10.00 lst Qu.: 10.30.75
Median: 17.00 Median: 20.00 Median: 21.50 Median: 23.03
Median: 17.00 Median: 20.00 Median: 21.50 Median: 23.33
Ard Qu.: 29.00 Jst Qu.: 31.55 Jst Qu.: 35.75 Jst Qu.: 95.75
Ard Qu.: 29.00 Median: 21.50 Median: 24.60 M
    results.75grade[Nousehold]: B
income88 income89 income10 income10 income.total
Min. :11.00 Min. :2.00 Min. :3.0 Min. :55.0
1st Qu.: 19.00 lst Qu.: 28.75 lst Qu.: 34.0 lst Qu.: 90.0
Mecin :51.44 Mean :56.60 Mecin :155.1 Mean :177.1
37 Qu.: 67.00 37 qu.: 67.0 37 qq. us.: 67.3 srq Qu.: 215.3 Mean :187.0 Mex. :116.00 Mex. :212.00 Mex. :175.0 Mex. :188.0 Mex : 188.0 Me
results.75grade[household]: C
income88 income99 income10 income.101
Nin. : 5,00 Min. : 5,00 Min. : 9,00 Min. : 19,0
1st Qu.: 24.50 1st Qu.: 18.00 1st Qu.: 25.50 1st Qu.: 68.0
Median: 44.00 Median: 36.00 Median: 30,00 Median 130,00 Median 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ld, c("income08","income09","income10","income.total")], results.7$grade[household], m .... [TRUNCATED]
    > print(results.income.household.by.grade.trmean)
results.7$grade[household]: A
income08 income09 income10 income.total
17.0 20.0 21.5 58.5
    results.75grade[household]: 8
income08 income09 income10 income.total
50.0 47.0 49.5 163.0
    results.7$grade[household]: C
income08 income09 income10 income.total
40 36 39 112
> print(results.income.total.by.grade.medion)
results.73grode(total): A
income.68 income.69 income.10 income.total
Min. : 1980 Min. : 1680 Min. : 1760 Min. : 4360
Ist Qu.: 1283 Ist Qu.: 2855 Ist Qu.: 5947 Ist Qu.: 9253
Median : 6429 Median : 6139 Median : 8612 Median : 22240
Median : 6429 Median : 6139 Median : 8612 Median : 22240
Median : 6429 Median : 6139 Median : 8612 Median : 22240
Sard Qu.: 14930 Sard Qu.: 22440 Sard Qu.: 28587 Sard Qu.: 63857
Med. : 39600 Mex. : 31437 Mex. : 31600 Mex. : 13650 Mex. :
Pesults:75grade[total]: C
income08 income09 income10 income.total
Ntn. : 194 Ntn. : 154 Mtn. : 180.0 Mtn. : 563
1st Qu.: 880 1st Qu.: 945 1st Qu.: 531.5 1st Qu.: 2822
Nscian: 18000 Medican: 19007 Medican: 12145 Medican : 2822
Nscian: 10000 Jan. 10000 Series (1942.5 Series ) Series (1942.5 Seri
> print(results.income.total.by.grade.trmean)
results.75grade[total]: A
income08 income09 income10 income.total
6429 6199 8612 21240
    results.7$grade[total]: B
income08 income09 income10 income.total
9852 14808 15906 36137
    results.7$grade[total]: C
income08 income09 income10 income.total
10000.0 6907.0 1214.5 23245.5
         > results.leader.bv.arade.median<-bv(results.7f.c("leader08"."leader09"."leader10"."leader.total")1.results.7$arade.summarv)
> print(results.leader-by.grade.median)
results.74grade: A
leader-89 leader-99 leader-18 leader-total
Min. : 38.0 Min. : 15.0 Min. : 28.0 Min. : 128.0
List (u. : 45.0 is 15.0 List (u. : 38.0 is 16.0 list (u. : 38.0 list (u. : 38.0
    Pesults 75grade: 8 | leader09 | leader10 | leader.total | leader.stal | leader.stal | leader.stal | leader.stal | leader.stal | leader.stal | list Qui: 37.0 | list Qui: 53.0 | list Qui: 50.0 | list Qui: 205.0 |
         results.7$grade: C
leader08
         09","leader10","leader.total")],results.7$grade,mean, trim=5, na.rm=T)
```

```
results.75grade: C
leader08 leader09 leader10 leader.total
79.0 128.0 114.5 383.0
> print(results.sales.by.Region.medion)
results.78Region: Why
resu
results.75Region: 87
soles88 soles89 soles10 soles.10
Min. : 223 Min. : 628 Min. : 180 Min. : 1679
1st Qu.: 1959 1st Qu.: 2986 1st Qu.: 3578 1st Qu.: 9536
Median : 4430 Median : 7494 Median : 1414 Median : 9536
Median : 2437 Median : 2729 Median : 55362
Median : 2729 Median : 2729 Median : 55362
Median : 2729 Median : 55362
Median : 156626 Median : 55362 Median : 57362
Median : 166626 Median : 53562 Median : 57362
Median : 166626 Median : 53562 Median : 57362
Median : 166626 Median : 53562 Median : 57362
Median : 57362 Median : 57362
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Median
results.75Region: ½½
soles88 soles09 soles10 soles.total
Min. : 1900 Min. : 345 Min. : 89 Min. : 2640
1st Qu.: 3744 1st Qu.: 4628 1st Qu.: 4203 1st Qu.: 15456
Median : 5202 Median : 12277 Median : 9655 Median : 12679
Median : 48739 Median : 36143 Median : 36975 Median : 126876
Median : 5202 Percu. : 36888 Jacqu.: 271779 Median : 36178
Median : 361742 Service : 324858 Jacqu.: 271779 Median : 126778
Median : 361742 Service : 324858 Jacqu.: 271779 Median : 126778
        > results.sales.by.Region.trmean<-by(results.7[,c("sales08","sales09","sales10","sales.total")],results.7$Region,mean, trim=5, na.rm=T)
> print(results.sales.by.Region.trmean)
results.7$Region: 영남
sales08 sales09 sales10 sales.total
7135.5 11868.5 14288.0 33657.0
results.7$Region: 중부
sales08 sales09 sales10 sales.total
4430.0 7494.5 11540.0 23461.0
    results.7$Region: 호남
sales08 sales09 sales10 sales.total
5202.0 11277.0 9865.0 30870.5
Pesults:75Region: 8# jobs09 jobs10 jobs.total Min. : 2.0 Min. : 2.0 Min. : 2.0 Min. : 17.0 Ist Qu.: 17.0 Ist Qu.: 17.0 Ist Qu.: 17.5 Ist Qu.: 17.0 Ist Qu.: 17.0 Ist Qu.: 17.5 Median : 31.5 Median : 32.5 Median : 
| results.75Region: $\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1
    > print(results.jobs.by.Region.trmean)
results.7$Region: 영남
   jobs08   jobs09   jobs10 jobs.total
   63.0   58.0   58.5   162.0
results.7$Region: &\( \textit{8F}\)
jobs08 jobs09 jobs10 jobs.total
31.5 35.0 46.5 100.0
results.7$Region: 호남
jobs08 jobs09 jobs10 jobs.total
50.0 109.5 58.5 212.0
    > results.corp.by.Region.median<-by(results.7[,c("corp08","corp09","corp10","corp.total")],results.7$Region,summary)
Persistance of the property of
results:/5Region: 8∓
corp98
corp98
din. :1.00 Min. :1.000 Min. :1.000 Min. :3.00
1st Qu. 1.50 lst Qu. 1.500 Median :2.000 Median :1.000 Median :2.000 Media
    > print(results.corp.by.Region.trmean)
results.7$Region: 영남
corp08 corp09 corp10 corp.total
5 5 2 24
        results.7$Region: 중부
corp08 corp09 corp10 corp.total
2 3 2 16
    results.7$Region: 호남
corp08 corp09 corp10 corp.total
4.0 3.0 2.0 10.5
```

```
> print(results.income.household.by.Region.median)
results.78Region[household]: "8" income: 10
inco
      results.78Region[household]: 8" income10 income.total income50 inc
            > print(results.income.household.by.Region.trmean) results.7$Region[household]: 영남 income08 income09 income10 income.total 26 35 34 98
> print(results.income.total.by.Region.median)
results.78Region(total): % income! % in
      Tesults.75Kegion[fotol]] 5 % incomes 1 % i
      Na's : 1.0 
> results.income.total.by.Region.trmean<-by(results.7[total, c("income08", "income09", "income10", "income.total")], results.7$Region[total], mean,trim=5, ... [TRUNCATED]
      > print(results.income.total.by.Region.trmean)
results.7$Region[total]: 영남
income08 income09 income10 income.total
7636.5 5261.0 12330.5 28381.0
      results.7$Region[total]: 중부
income08 income09 income10 income.total
2776.0 4081.5 3602.0 10414.5
> print(results.leader-by-grade.median)
results.74grade: A
leader-89 leader-99 leader-18 leader-total
Min. 38.0 Min. 15.0 Min. 28.0 Min. 128.0
Min. 130.0 Hin. 15.0 Min. 28.0 Min. 128.0
Median: 88.0 Median: 183.0 Median: 126.0 Median: 465.0
Median: 88.0 Median: 188.0 Median: 126.0 Median: 126.0
Median: 188.0 Median: 188.0 Median: 126.0 Median: 1
| Tessults.7Sgrade: 8 | Leader09 | Leader10 | Leader.total |
| Min. : 16.0 | Min. : 25.0 | Min. : 23.0 | Min. : 73.0 |
| Ist Qu.: 37.0 | Ist Qu.: 53.0 | Ist Qu.: 50.0 |
| Sis Qu.: 37.0 | Let Qu.: 53.0 | Ist Qu.: 50.0 |
| Sis Qu.: 37.0 | Let Qu.: 53.0 | Ist Qu.: 50.0 |
| Sis Qu.: 37.0 | Let Qu.: 53.0 | Ist Qu.: 50.0 |
| Sis Qu.: 32.0 | Mean: 12.7 | Mean: 12.7 |
| Sis Qu.: 224.5 | 3rd Qu.: 301.0 | 3rd Qu.: 178.0 | 3rd Qu.: 61.0 |
| Ma's : 3.0 | Ma's : 1.0 | Ma's : 1.0 | Ma's : 3.0 |
| Ma's : 3.0 | Na's : 1.0 | Ma's : 1.0 | Ma's : 3.0 |
| Sis Qu.: 50.0 | Ma's : 3.0 | Ma's : 3.0 |
| Sis Qu.: 50.0 | Ma's : 3.0 | Ma's : 3.0 |
| Sis Qu.: 50.0 | Ma's : 3.0 | Ma's : 3.0 |
| Sis Qu.: 50.0 | Ma's : 3.0 | Ma's : 3.0 |
| Sis Qu.: 50.0 | Ma's : 3.0 | Ma's : 3.0 |
| Sis Qu.: 50.0 | Ma's : 3.0 | Ma's : 3.0 |
| Sis Qu.: 50.0 | Ma's : 3.0 | Ma's : 3.0 |
| Sis Qu.: 50.0 | Ma's : 3.0 | Ma's : 3.0 |
| Sis Qu.: 50.0 | Ma's : 3.0 |
| Sis Qu.: 50.0 | Ma's : 3.0 |
| Sis Qu.: 50.0 | Ma's : 3.0 |
| Sis Qu.: 50.0 | Ma's : 3.0 |
| Sis Qu.: 50.0 | Ma's : 3.0 |
| Sis Qu.: 50.0 | Min. : 23.0 |
| Sis Qu.: 50.0 | Min. : 23.0 |
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| Sis Qu.: 50.0 | Min. : 23.0 |
| Sis Qu.: 50.0 | Min. : 23.0 |
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| Sis Qu.: 50.0 | Min. : 23.0 |
| Sis Q

        results.75grade:
        C
        leader09
        leader10
        leader10
        leader.total

        Min.
        : 25.0
        Min.
        : 24.0
        Min.
        : 30.00
        Min.
        : 105

        1st Qu.:
        47.0
        1st Qu.:
        76.0
        1st Qu.:
        78.75
        1st Qu.:
        203

        Median
        : 29.0
        Median
        : 14.5
        Median
        114.5
        Median
        : 14.5
        Median
        : 11.5
        Median
        : 11.5
        Median
        : 12.0
        Median
        : 12.0

results.75grade: B
leader08 leader09 leader10 leader.total
79 116 94 412
      results.7$grade: C
leader08 leader09 leader10 leader.total
79.0 128.0 114.5 383.0
results.75class: Middle sales98 sales10 sales.total Min. : 190 Min. : 728 Min. : 180 Min. : 1679 1st Qu.: 2239 1st Qu.: 3829 1st Qu.: 4372 1st Qu.: 11101 Median : 4485 Median : 4485 Median : 4485 Median : 4485 Median : 13287 Median : 14814 Median : 18597 Median : 4875 Median : 8487 Median : 8487 Median : 4875 Median : 4875 Median : 8487 Median : 4875 Median : 8487 Median : 4875 Median : 4875
```

```
results.7scloss: Under sole=30 sole=30 soles.total?  
Min. 12 50 Min. 15 Min. 15 Min. 12 Min. 
       > results.sales.bv.class.trmean<-bv(results.7f.c("sales08"."sales09"."sales10"."sales.total")].results.7$class.mean.trim=5. na.rm=T)
       > print(results.sales.by.class.trmean)
results.7$class: Better
sales08 sales09 sales10 sales.total
6880.5 14702.0 13744.5 37706.0
   results.75class: Middle
sales08 sales09 sales10 sales.total
4465.0 7141.5 8371.0 20827.0
           results.7$class: Under
sales08 sales09 sales10 sales.total
8893.0 11485.0 11087.5 34402.0
   > results.7(c) jobs.by.class.metion-cry(results.7(c) jobses ) jobses > print(results.7c)class. Better | jobses | jobs10 | jobs.total | 
Tesults./Scloss: Middle jobs89 jobs89 jobs10 jobs.total Min. : 2.00 Min. : 18.0 Min. : 14.0 Min. : 36.0 List Qu.: 24.75 list Qu.: 54.0 list Qu.: 54.75 list Qu.: 55.5 Median : 123.4 Min. : 123.5 Median : 173.7 Median : 173.7 Median : 173.8 Median 
   results.75closs: Under jobs09 jobs10 jobs.total Nin. : 5.0 Min. : 11.00 Min. : 2.0 Min. : 37.0 lst Qu.: 15.0 lst Qu.: 29.25 lst Qu.: 31.0 lst Qu.: 120.0 Median : 40.0 Median : 52.1 Median : 521.6 Median : 521.0 Median : 521
                                                                                                                                                                                                                                                                                                                                                                                                                          .7[,c("jobs08","jobs09","jobs10","jobs.total")],results.7$class,mean,trim=5, na.rm=T)
           results.7$class: Middle
jobs08 jobs09 jobs10 jobs.total
76.0 179.5 154.0 534.0
   results.7$class: Under
jobs08 jobs09 jobs10 jobs.total
49.0 46.5 49.0 144.0
   | results.75class: Under | corp8 | corp10 | corp.total | list Qu.: 1.00 | Min. :1.000 | Min. :4.00 | M
   > results.corp.by.class.trmean<-by(results.7[,c("corp08","corp09","corp10","corp.total")],results.7$class,mean, trim=5, na.rm=T)
   results.75class: Middle
corp08 corp09 corp10 corp.total
5 4 3 18
       results.7$class: Under corp08 corp09 corp10 corp.total 3 3 2 8
       > print(results.export.by.class.median)
results.7class: Better
export89 export99 export10 export.total
Min. : 2000 Min. : 588 Min. : 4382 Min. : 8384
Min. : 38390 Median : 38590 Median : 556900 Median : 138900 Median : 380900 Median : 1056000
Median : 320000 Median : 380900 Median : 1056000 Median : 11056000
Median : 2765000 3rd Qu.: 2339250 3rd Qu.: 2616542 3rd Qu.: 9700000
Ma's : 496000 Max : 13192000 Max : 52533000 Max : 51138000
Ma's : 15 Ma's : 11 Ma's : 13 Ma's : 16
   results.75:class: Middle export89 export10 export.80 Min. : 36000 Min. : 26250 Min. : 3432 Min. : 94866 lst Qu.: 67500 lst Qu.: 247738 lst Qu.: 731452 Median : 277556 Median : 277538 Median : 277556 Median : 27550087 Median : 1531527 Median : 15350087 Medi
export.total
Min. : 386000
1st Qu.: 1280000
Median : 5024000
Mean : 6462238
3rd Qu.: 9400000
Max. :230600000
NA's : 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           oort09","export10","export.total")],results.7$class,mean, trim=5, na.r
```

```
print(results.export.by.class.trmean)
esults.7$class: Better
export88 export09 export10 export.total
320000 389500 550500 1196000
    results.7$class: Under
export08 export09 export10 export.total
805500 515000 756000 5024000
    > results.income.household.bv.class.median<-bv(results.7fhousehold. c("income08", "income09", "income10", "income.total")]. results.7$class[household]. s .... [TRUNCATED]
        > print(results.income.household.by.class.median)
results.75class[household]: Better
income80 income80 income80 income.00
Min. : 5 Min. : 5.00 Min. : 9.00 Min. : 19.0
Ist qu.: 22 i. 81 cqu.: 22.00
Median : 39 Median : 36.00 Median : 43.00 Median : 128.0
Median : 39 Median : 36.00 Median : 43.00 Median : 128.0
Median : 30 Median : 40.00 Median : 43.00 Median : 30 M
    | results.75class||Tousehold|| Middle | income88 | income89 | income80 | inco
    results.75closs[household]: linder income88 income89 income80 inco
    results.7$class[household]: Middle
income08 income09 income10 income.total
16 15 16 54
results.7$class[household]: Under
income08 income09 income10 income.total
27.0 35.0 33.5 100.0
    > results.income.total.by.class.median<-by(results.7[total,c("income08","income09","income10","income.total")],results.7$class[total],summary)
        > print(results.income.total.by.class.median)
results.7sclass[total]: Better income80 income8
results.75closs[total]: Under income08 income08 income09 income08 income09 income01 income100 income.total lst Qu. 8096 ist Qu. 5465 ist Qu.11000 ist Qu. 31680 Medin :11260 Medin :11490 Medin :11260 Medin :11490 Medin :11490 Medin :14100 M
    > results.income.total.by.class.trmean<-by(results.7[total,c("income08","income09","income10","income.total")],results.7$class[total], mean, trim-5, n .... [TRUNCATED]
    > print(results.income.total.by.class.trmean)
results.7$class[total]: Better
income08 income09 income10 income.total
2776.0 4081.5 3602.0 10414.5
results.7%class[total]: Middle
income08 income09 income10 income.total
6710.5 11754.5 7169.0 27559.5
    results.7$class[total]: Under
income08 income09 income10 income.total
12466.0 12953.0 16311.0 40164.5
                        results.leader.by.class.median<-by(results.7[,c("le
> results.7 sequer. By closs. menutine-by results.7 (c) teauers , it print(results.1 seader.by grade. median) results.7 Sprade: A leader90 leader10 leader.total Min. 183.0 Min. : 15.0 Min. : 20.0 Min. : 120.0 Min.
Pesults.73grade: 8 | Leader09 | Leader10 | Leader.total | Min. : 16.0 | Min. : 25.0 | Min. : 23.0 | Min. : 73.0 | Leader.00 | 
results:75grade: ( | leader09 | leader10 | leader.total | leader | leader09 | leader10 | leader.total | leader09 | leader.total | leader.tota
    > results.leader.by.class.trmean<-by(results.7[,c("leader08","leader09","leader10","leader.total")],results.7$class,mean, trim=5, na.rm=T)
    > print(results.leader.by.grade.trmean)
results.75grade: A
leader08 leader09 leader10 leader.total
80 103 126 405
| results.75grade: 8 | leader89 | leader10 leader.total | 94 | 412 | results.75grade: ( | leader88 | leader90 | leader10 leader.total | 79.0 | 128.0 | 114.5 | 383.0 |
```