2020/11/13(五), 109 學年第一學期 資料科學應用 R 作業(3)

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```
>
>
> #ex1.25(a)
> library(readxl)
> my.data <- read_excel("data/R-score.xlsx")
New names:
* `` -> ...2
* `` -> ...3
* `` -> ...4
> head(my.data, 6)
# A tibble: 6 x 10
  `115-2-R 程式設計`~ ...2  ...3  ...4  `小考(1)`
  <chr>                <chr> <chr> <chr>       <dbl>
1 No                   系級  學號  姓名            0.1
2 1                    統計系 1~ 3257~ 周小如~      55
3 2                    統計系 1~ 3257~ 周抒如~      30
4 3                    會計系 1~ 3257~ 林育安~      10
5 4                    會計系 1~ 3257~ 林育辰~      10
6 5                    會計系 1~ 3257~ 黃季晴~       5
# ... with 5 more variables: `小考(2)` <dbl>,
#   `小考(3)` <dbl>, 作業 <dbl>, 期末考 <dbl>,
#   點名 <chr>
```

```
>
> #ex1.25(b)
> str(my.data)
tibble [14 x 10] (S3: tbl_df/tbl/data.frame)
 $ 115-2-R 程式設計: chr [1:14] "No" "1" "2" "3" ...
 $ ...2                : chr [1:14] "系級" "統計系 1" "統計系 1" "會計系 1" ...
 $ ...3                : chr [1:14] "學號" "32578012" "32578014" "32578016" ...
 $ ...4                : chr [1:14] "姓名" "周小如" "周抒如" "林育安" ...
 $ 小考(1)             : num [1:14] 0.1 55 30 10 10 5 10 25 55 10 ...
 $ 小考(2)             : num [1:14] 0.15 95 65 5 20 15 35 50 45 15 ...
 $ 小考(3)             : num [1:14] 0.15 100 70 25 45 20 60 40 75 55 ...
 $ 作業                : num [1:14] 0.2 100 100 10 40 25 0 60 100 55 ...
 $ 期末考              : num [1:14] 0.4 86 94 77 87 86 77 87 79 87 ...
 $ 點名                : chr [1:14] "10 分" "10" "10" "10" ...
> mean(my.data$"小考(1)"[2:14])
[1] 25
> mean(my.data$"小考(2)"[2:14])
[1] 36.15385
> mean(my.data$"小考(3)"[2:14])
[1] 51.15385
> mean(my.data$"作業"[2:14])
[1] 51.15385
> mean(my.data$"期末考"[2:14])
```

```
[1] 77.23077

> sd(my.data$"小考(1)"[2:14])

[1] 18.37117

> sd(my.data$"小考(2)"[2:14])

[1] 33.05008

> sd(my.data$"小考(3)"[2:14])

[1] 26.7047

> sd(my.data$"作業"[2:14])

[1] 38.57643

> sd(my.data$"期末考"[2:14])

[1] 23.89963
>
> #ex1.25(c)
> my.data$total <- c(as.matrix(my.data[, 5:9])%*% as.vector(c(0.1, 0.15, 0.15, 0.2,
0.4)))
>
>
>
>
> #ex1.29(a)
> data1 <- read_excel("data/R-score.xlsx", na="NA")
New names:
* `` -> ...2
* `` -> ...3
* `` -> ...4
> data1
# A tibble: 14 x 10
   `115-2-R 程式設計`~ ...2    ...3    ...4    `小考(1)`
   <chr>                <chr> <chr> <chr>         <dbl>
 1 No                   系級    學號    姓名            0.1
 2 1                    統計系 1~ 3257~  周小如~         55
```

```
 3 2                    統計系 1~ 3257~  周抒如~        30

 4 3                    會計系 1~ 3257~  林育安~        10

 5 4                    會計系 1~ 3257~  林育辰~        10

 6 5                    會計系 1~ 3257~  黃季晴~         5

 7 6                    統計系 1~ 3257~  詹宜瑄~        10

 8 7                    會計系 1~ 3257~  劉岱蓉~        25

 9 8                    統計系 1~ 3257~  蔡旻憫~        55

10 9                    統計系 1~ 3257~  黎奕璇~        10

11 10                   會計系 1~ 3247~  蕭偲賢~        15

12 11                   會計系 1~ 3247~  謝涵融~        35

13 12                   會計系 1~ 3257~  羅順霓~        50

14 13                   統計系 1~ 3257~  顧瀚薇~        15

# ... with 5 more variables: `小考(2)` <dbl>,

#     `小考(3)` <dbl>, 作業 <dbl>, 期末考 <dbl>,

#     點名 <chr>

> str(data1)
tibble [14 x 10] (S3: tbl_df/tbl/data.frame)

 $ 115-2-R 程式設計: chr [1:14] "No" "1" "2" "3" ...

 $ ...2                 : chr [1:14] "系級" "統計系 1" "統計系 1" "會計系 1" ...

 $ ...3                 : chr [1:14] "學號" "32578012" "32578014" "32578016" ...
```

```
 $ ...4                  : chr [1:14] "姓名" "周小如" "周抒如" "林育安" ...
 $ 小考(1)               : num [1:14] 0.1 55 30 10 10 5 10 25 55 10 ...
 $ 小考(2)               : num [1:14] 0.15 95 65 5 20 15 35 50 45 15 ...
 $ 小考(3)               : num [1:14] 0.15 100 70 25 45 20 60 40 75 55 ...
 $ 作業                  : num [1:14] 0.2 100 100 10 40 25 0 60 100 55 ...
 $ 期末考                : num [1:14] 0.4 86 94 77 87 86 77 87 79 87 ...
 $ 點名                  : chr [1:14] "10 分" "10" "10" "10" ...
> colnames(data1) <- c("no", "grade", "id", "name",
+                      "quiz1", "quiz2", "quiz3", "hw", "final", "attend")
> data1$id <- as.factor(data1$id)
> str(data1)
tibble [14 x 10] (S3: tbl_df/tbl/data.frame)
 $ no      : chr [1:14] "No" "1" "2" "3" ...
 $ grade : chr [1:14] "系級" "統計系 1" "統計系 1" "會計系 1" ...
 $ id      : Factor w/ 14 levels "32474226","32475032",..: 14 5 6 7 8 9 10 11 12 13 ...
 $ name    : chr [1:14] "姓名" "周小如" "周抒如" "林育安" ...
 $ quiz1 : num [1:14] 0.1 55 30 10 10 5 10 25 55 10 ...
 $ quiz2 : num [1:14] 0.15 95 65 5 20 15 35 50 45 15 ...
 $ quiz3 : num [1:14] 0.15 100 70 25 45 20 60 40 75 55 ...
 $ hw      : num [1:14] 0.2 100 100 10 40 25 0 60 100 55 ...
 $ final : num [1:14] 0.4 86 94 77 87 86 77 87 79 87 ...
 $ attend: chr [1:14] "10 分" "10" "10" "10" ...
> data2 <- read.table("data/20140714-weather.txt", header=TRUE, sep="\t")
> data2
    locationName      lat      lon stationId TEMP ELEV
1           基隆 25.1348 121.7321    466940 29.1   27
2           淡水 25.1656 121.4400    466900 28.5   19
```

3	板橋	24.9993	121.4338	466880	29.0	10
4	竹子湖	25.1650	121.5363	466930	25.2	607
5	新竹	24.8300	121.0061	467571	29.8	34
6	臺中	24.1475	120.6759	467490	29.4	84
7	梧棲	24.2587	120.5151	467770	29.2	7
8	澎湖	23.5672	119.5552	467350	27.8	11
9	日月潭	23.8830	120.8999	467650	22.8	1015
10	阿里山	23.5104	120.8051	467530	14.4	2413
11	玉山	23.4893	120.9517	467550	7.3	3845
12	嘉義	23.4977	120.4245	467480	29.3	27
13	高雄	22.5679	120.3080	467440	30.3	2
14	恆春	22.0054	120.7381	467590	29.7	22
15	宜蘭	24.7656	121.7479	467080	28.5	7
16	蘇澳	24.6017	121.8644	467060	29.9	25
17	花蓮	23.9770	121.6050	466990	29.4	16
18	成功	23.0992	121.3654	467610	29.1	34
19	臺東	22.7540	121.1465	467660	30.3	9
20	大武	22.3576	120.8957	467540	28.3	8
21	蘭嶼	22.0387	121.5506	467620	26.7	324

```
22          彭佳嶼  25.6294 122.0713       466950 27.9    102

23          東吉島  23.2590 119.6596       467300 29.5     43

24            新店  24.9608 121.5165       A0A9M0 26.8     24

25            臺北  25.0396 121.5067       466920 30.4      5

26            臺南  22.9952 120.1970       467410 30.0     41

27            金門  24.4074 118.2893       467110 28.4     48

28            馬祖  26.1694 119.9232       467990 28.0     98

29            新屋  25.0067 121.0475       467050 29.3     21
> str(data2)
'data.frame':    29 obs. of    6 variables:

 $ locationName: chr    "基隆" "淡水" "板橋" "竹子湖" ...

 $ lat                : num    25.1 25.2 25 25.2 24.8 ...
 $ lon                : num    122 121 121 122 121 ...
 $ stationId      : chr    "466940" "466900" "466880" "466930" ...
 $ TEMP               : num    29.1 28.5 29 25.2 29.8 29.4 29.2 27.8 22.8 14.4 ...
 $ ELEV               : int    27 19 10 607 34 84 7 11 1015 2413 ...
> data3 <- read.csv("data/weather_delays14.csv", header=TRUE, sep=",")
> data3
      year month day dep_time arr_time carrier tailnum
1    2014        1     1        1733        2024          AA    N3HPAA
2    2014        1     1        1718        1840          B6    N324JB
3    2014        1     1         624         946          DL    N3751B
4    2014        1     1         910        1203          DL    N910DL
5    2014        1     1        1850        2052          MQ    N1EAMQ
6    2014        1     2        2049          45          AA    N319AA
7    2014        1     2         738        1124          AA    N335AA
8    2014        1     2           5         339          AA    N335AA
9    2014        1     2        1618        1958          AA    N339AA
10 2014        1     2        1657        2050          AA    N5FAAA
```

11	2014	1	2	1939	2351	AA	N336AA
12	2014	1	2	1445	1620	AA	N3KDAA
13	2014	1	2	1841	2013	AA	N3AEAA
14	2014	1	2	1837	2108	AA	N3FDAA
15	2014	1	2	1625	2020	AA	N3DDAA
16	2014	1	2	1920	2316	AA	N3BCAA
17	2014	1	2	615	819	AA	N3GKAA
18	2014	1	2	653	855	AA	N3BSAA
19	2014	1	2	838	1042	AA	N3DYAA
20	2014	1	2	925	1126	AA	N560AA
21	2014	1	2	959	1309	AA	N3EAAA
22	2014	1	2	1231	1445	AA	N4WSAA
23	2014	1	2	1405	1723	AA	N3JTAA
24	2014	1	2	1944	2117	AA	N547AA
25	2014	1	2	1903	2100	AA	N434AA
26	2014	1	2	758	1345	AA	N5FHAA
27	2014	1	2	2139	332	AA	N5CKAA
28	2014	1	2	1404	1748	AA	N3CTAA
29	2014	1	2	1720	2106	AA	N3DTAA
30	2014	1	2	1905	2234	AA	N3ESAA
31	2014	1	2	631	1007	AA	N3LBAA
32	2014	1	2	715	1026	AA	N3KAAA
33	2014	1	2	808	1131	AA	N3DTAA
34	2014	1	2	908	1301	AA	N3FMAA
35	2014	1	2	1052	1428	AA	N3KUAA
36	2014	1	2	1956	2320	AA	N3CMAA
37	2014	1	2	1306	1646	AA	N3BBAA
38	2014	1	2	1512	1826	AA	N3HVAA
39	2014	1	2	1514	1846	AA	N3DPAA
40	2014	1	2	1603	1940	AA	N3KAAA
41	2014	1	2	1550	1901	AA	N3LBAA
42	2014	1	2	844	1346	AA	N5FGAA
43	2014	1	2	1657	2040	AA	N3AUAA
44	2014	1	2	1124	1512	AA	N3GPAA
45	2014	1	2	1954	2358	AA	N3FMAA
46	2014	1	2	910	1241	AA	N3AUAA
47	2014	1	2	730	1049	AA	N3DPAA
48	2014	1	2	1519	1847	AA	N5CCAA

49	2014	1	2	1831	2209	AA	N369AA
50	2014	1	2	1744	2112	AA	N3JMAA
51	2014	1	2	2000	7	AA	N3BSAA
52	2014	1	2	1822	2133	AA	N633AA
53	2014	1	2	3	452	B6	N806JB
54	2014	1	2	1557	1748	B6	N183JB
55	2014	1	2	1829	2130	B6	N238JB
56	2014	1	2	2040	6	B6	N247JB
57	2014	1	2	2113	2338	B6	N281JB
58	2014	1	2	857	1102	B6	N324JB
59	2014	1	2	2215	145	B6	N507JB
60	2014	1	2	1952	2316	B6	N516JB
61	2014	1	2	1949	25	B6	N524JB
62	2014	1	2	1838	2205	B6	N562JB
63	2014	1	2	2037	114	B6	N571JB
64	2014	1	2	2336	416	B6	N587JB
65	2014	1	2	156	852	B6	N588JB
66	2014	1	2	2321	321	B6	N589JB
67	2014	1	2	1920	2256	B6	N629JB
68	2014	1	2	2027	104	B6	N630JB
69	2014	1	2	2058	242	B6	N641JB
70	2014	1	2	1915	2250	B6	N644JB
71	2014	1	2	2334	337	B6	N649JB

	flight	origin	dest	carrier_delay	weather_delay
1	199	JFK	ORD	0	7
2	1734	JFK	BTV	0	18
3	479	JFK	ATL	0	9
4	1174	LGA	PBI	0	52
5	2839	LGA	STL	0	35
6	21	JFK	LAX	0	87
7	33	JFK	LAX	0	8
8	185	JFK	LAX	0	53
9	133	JFK	LAX	0	32
10	145	JFK	MIA	0	6
11	177	JFK	SFO	0	114
12	178	JFK	BOS	0	1
13	256	JFK	BOS	0	63
14	199	JFK	ORD	0	33

15	211	JFK	IAH	0	10
16	291	JFK	AUS	0	74
17	301	LGA	ORD	0	15
18	303	LGA	ORD	0	23
19	307	LGA	ORD	0	58
20	313	LGA	ORD	0	35
21	317	LGA	ORD	0	14
22	327	LGA	ORD	0	4
23	331	LGA	ORD	0	10
24	343	LGA	ORD	0	45
25	345	LGA	ORD	0	10
26	936	JFK	STT	0	8
27	1029	JFK	SJU	0	159
28	1073	LGA	MIA	0	4
29	1171	LGA	DFW	0	8
30	1185	LGA	DFW	0	42
31	1103	LGA	DFW	0	31
32	1107	LGA	DFW	0	30
33	1111	LGA	DFW	0	23
34	1121	LGA	DFW	0	8
35	1131	LGA	DFW	0	27
36	1193	LGA	DFW	0	46
37	1145	LGA	DFW	0	11
38	1151	LGA	DFW	0	14
39	1155	LGA	DFW	0	8
40	1156	LGA	DFW	0	3
41	1327	LGA	PBI	0	14
42	1357	JFK	SJU	0	39
43	1410	LGA	MIA	0	11
44	1599	LGA	MIA	0	18
45	1611	LGA	MIA	0	74
46	2267	LGA	MIA	0	70
47	2279	LGA	MIA	0	20
48	2285	JFK	MCO	0	20
49	2351	JFK	MIA	0	61
50	2297	LGA	MIA	0	50
51	2437	LGA	MIA	0	35
52	2448	JFK	EGE	0	52

53	329	JFK	RSW	0	150
54	118	JFK	BOS	0	14
55	1373	JFK	CHS	251	19
56	1119	JFK	CLT	0	17
57	2202	JFK	BUF	0	15
58	885	JFK	RDU	0	16
59	65	JFK	ABQ	0	67
60	711	JFK	LAS	6	43
61	161	JFK	SMF	0	17
62	183	JFK	MCO	0	8
63	201	JFK	FLL	99	28
64	2053	JFK	PBI	0	21
65	1503	JFK	SJU	0	50
66	1295	JFK	AUS	0	70
67	1801	JFK	FLL	0	41
68	263	JFK	SEA	69	31
69	803	JFK	SJU	0	79
70	669	JFK	SJC	0	26
71	1901	JFK	FLL	0	41

	nas_delay	aircraft_delay
1	51	11
2	6	0
3	45	0
4	0	0
5	12	0
6	41	22
7	26	0
8	14	97
9	5	1
10	18	101
11	32	0
12	35	114
13	12	13
14	31	49
15	45	0
16	36	51
17	19	0
18	17	0

19	19	0
20	16	0
21	85	0
22	34	42
23	103	35
24	0	127
25	7	78
26	42	0
27	54	0
28	29	10
29	31	22
30	9	53
31	21	0
32	1	0
33	8	0
34	33	0
35	21	0
36	14	0
37	30	0
38	4	73
39	22	11
40	17	15
41	0	12
42	3	0
43	18	56
44	33	26
45	44	25
46	16	0
47	4	0
48	18	4
49	13	0
50	3	119
51	47	0
52	16	0
53	97	47
54	42	104
55	54	0
56	86	173

```
57            53                 141
58            21                  64
59            27                  67
60            32                   5
61            63                   0
62            33                   0
63            89                   0
64           109                  80
65           135                  67
66            46                  86
67            18                 163
68            77                   0
69            48                   7
70             0                  19
71            62                  63
  [ reached 'max' / getOption("max.print") -- omitted 4588 rows ]
> str(data3)
'data.frame':    4659 obs. of    14 variables:
  $ year          : int    2014 2014 2014 2014 2014 2014 2014 2014 2014 2014 ...
  $ month         : int    1 1 1 1 1 1 1 1 1 1 ...
  $ day           : int    1 1 1 1 1 2 2 2 2 2 ...
  $ dep_time      : int    1733 1718 624 910 1850 2049 738 5 1618 1657 ...
  $ arr_time      : int    2024 1840 946 1203 2052 45 1124 339 1958 2050 ...
  $ carrier       : chr    "AA" "B6" "DL" "DL" ...
  $ tailnum       : chr    "N3HPAA" "N324JB" "N3751B" "N910DL" ...
  $ flight        : int    199 1734 479 1174 2839 21 33 185 133 145 ...
  $ origin        : chr    "JFK" "JFK" "JFK" "LGA" ...
  $ dest          : chr    "ORD" "BTV" "ATL" "PBI" ...
  $ carrier_delay : int    0 0 0 0 0 0 0 0 0 0 ...
  $ weather_delay : int    7 18 9 52 35 87 8 53 32 6 ...
  $ nas_delay     : int    51 6 45 0 12 41 26 14 5 18 ...
  $ aircraft_delay: int    11 0 0 0 0 22 0 97 1 101 ...
>
> #ex2.10
> score <- sample(1:100, 50, replace = TRUE)

> ifelse(any(score >= 95), "老師請同學吃飯", "老師很生氣")

[1] "老師請同學吃飯"
```

```
>
> #ex2.21(a)
> score.data <- read.csv("data/score02.csv")
> head(score.data, 7)
      學號 期中考 期末考
1 410072106     80     60
2 410073023     50     73
3 410079062     45     35
4 410079090     77     54
5 410079118     62     54
6 410079120     67     45
7 410079121     72     78
>
> #ex2.21(b)
> str(score.data)
'data.frame':   94 obs. of  3 variables:
 $ 學號  : int  410072106 410073023 410079062 410079090 410079118
410079120 410079121 410172016 410172027 410172103 ...
 $ 期中考: int  80 50 45 77 62 67 72 62 82 92 ...
 $ 期末考: int  60 73 35 54 54 45 78 75 95 66 ...
> class(score.data)
[1] "data.frame"
> names(score.data) <- c("id", "mid", "final")
> score.data
          id mid final
1  410072106  80    60
2  410073023  50    73
3  410079062  45    35
4  410079090  77    54
5  410079118  62    54
6  410079120  67    45
7  410079121  72    78
8  410172016  62    75
9  410172027  82    95
```

10	410172103	92	66
11	410173029	42	11
12	410173072	55	73
13	410173101	82	64
14	410173134	92	78
15	410173135	100	55
16	410173136	80	88
17	410174210	50	63
18	410183004	95	90
19	410183012	67	35
20	410184012	75	16
21	410184015	52	45
22	410273002	100	25
23	410273004	99	56
24	410273005	60	55
25	410273007	100	76
26	410273010	72	40
27	410273011	55	45
28	410273014	45	57
29	410273016	62	100
30	410273018	100	25
31	410273019	70	67
32	410273020	95	55
33	410273024	75	55
34	410273031	85	68
35	410273032	75	64
36	410273034	70	47
37	410273040	67	56
38	410273041	57	28
39	410273042	70	85
40	410273048	52	62
41	410273049	72	40
42	410273050	57	42
43	410273051	47	6
44	410273057	80	70
45	410273060	50	40
46	410273062	60	76
47	410273065	85	70

48	410273067	70	86
49	410273069	82	65
50	410273070	100	72
51	410273073	75	88
52	410273075	87	40
53	410273076	47	75
54	410273081	90	31
55	410273094	100	8
56	410273095	90	64
57	410273096	87	70
58	410273102	100	100
59	410273105	85	52
60	410273106	80	71
61	410273108	90	94
62	410273109	90	80
63	410273110	87	87
64	410273116	82	100
65	410275001	61	9
66	410275005	92	73
67	410275015	52	43
68	410275016	55	60
69	410275017	57	47
70	410275020	95	81
71	410275029	79	93
72	410275032	85	33
73	410275033	60	29
74	410275034	85	81
75	410275036	72	26
76	410275040	70	57
77	410275051	35	90
78	410275055	85	53
79	410275058	100	100
80	410279001	100	48
81	410279006	32	14
82	410279018	47	55
83	410279021	42	32
84	410279039	90	41
85	410279049	47	60

```
86 410279054    32        54
87 410279063    72        82
88 410279075    38        90
89 410279080    90        36
90    49973086    82        76
91    49979003    85        25
92    49979046    82        55
93    49981006    82        55
94    49981011    95        98
>
> #ex2.21(c)
> score.data$id[score.data$final > score.data$mid]
  [1] 410073023 410079121 410172016 410172027
  [5] 410173072 410173136 410174210 410273014
  [9] 410273016 410273042 410273048 410273062
[13] 410273067 410273073 410273076 410273108
[17] 410273116 410275016 410275029 410275051
[21] 410279018 410279049 410279054 410279063
[25] 410279075    49981011
>
> #ex2.21(d)
> score.data1 <- table(score.data$mid >= 60, score.data$final >= 60)
> dimnames(score.data1) <- list(mid=c("fail", "pass"), final=c("fail", "pass"))
> score.data1
           final
mid        fail pass
   fail      15        9
   pass      32      38
>
> #ex2.21(e)
> average <- (score.data$final + score.data$mid)/2
> score.data$average <- average
> score.data[order(average, decreasing=T),]
                  id mid final average
58 410273102 100      100      100.0
79 410275058 100      100      100.0
94    49981011    95        98        96.5
18 410183004    95        90        92.5
```

61	410273108	90	94	92.0
64	410273116	82	100	91.0
9	410172027	82	95	88.5
25	410273007	100	76	88.0
70	410275020	95	81	88.0
63	410273110	87	87	87.0
50	410273070	100	72	86.0
71	410275029	79	93	86.0
14	410173134	92	78	85.0
62	410273109	90	80	85.0
16	410173136	80	88	84.0
74	410275034	85	81	83.0
66	410275005	92	73	82.5
51	410273073	75	88	81.5
29	410273016	62	100	81.0
10	410172103	92	66	79.0
90	49973086	82	76	79.0
57	410273096	87	70	78.5
48	410273067	70	86	78.0
15	410173135	100	55	77.5
23	410273004	99	56	77.5
39	410273042	70	85	77.5
47	410273065	85	70	77.5
56	410273095	90	64	77.0
87	410279063	72	82	77.0
34	410273031	85	68	76.5
60	410273106	80	71	75.5
7	410079121	72	78	75.0
32	410273020	95	55	75.0
44	410273057	80	70	75.0
80	410279001	100	48	74.0
49	410273069	82	65	73.5
13	410173101	82	64	73.0
1	410072106	80	60	70.0
35	410273032	75	64	69.5
78	410275055	85	53	69.0
8	410172016	62	75	68.5
31	410273019	70	67	68.5

59	410273105	85	52	68.5
92	49979046	82	55	68.5
93	49981006	82	55	68.5
46	410273062	60	76	68.0
4	410079090	77	54	65.5
84	410279039	90	41	65.5
33	410273024	75	55	65.0
12	410173072	55	73	64.0
88	410279075	38	90	64.0
52	410273075	87	40	63.5
76	410275040	70	57	63.5
89	410279080	90	36	63.0
22	410273002	100	25	62.5
30	410273018	100	25	62.5
77	410275051	35	90	62.5
2	410073023	50	73	61.5
37	410273040	67	56	61.5
53	410273076	47	75	61.0
54	410273081	90	31	60.5
72	410275032	85	33	59.0
36	410273034	70	47	58.5
5	410079118	62	54	58.0
24	410273005	60	55	57.5
68	410275016	55	60	57.5
40	410273048	52	62	57.0
17	410174210	50	63	56.5
6	410079120	67	45	56.0
26	410273010	72	40	56.0
41	410273049	72	40	56.0
91	49979003	85	25	55.0
55	410273094	100	8	54.0
85	410279049	47	60	53.5
69	410275017	57	47	52.0
19	410183012	67	35	51.0
28	410273014	45	57	51.0
82	410279018	47	55	51.0
27	410273011	55	45	50.0
42	410273050	57	42	49.5

75	410275036	72	26	49.0
21	410184015	52	45	48.5
67	410275015	52	43	47.5
20	410184012	75	16	45.5
45	410273060	50	40	45.0
73	410275033	60	29	44.5
86	410279054	32	54	43.0
38	410273041	57	28	42.5
3	410079062	45	35	40.0
83	410279021	42	32	37.0
65	410275001	61	9	35.0
11	410173029	42	11	26.5
43	410273051	47	6	26.5
81	410279006	32	14	23.0

>