**6-1**

**data** temper1;

do obs=**1** to **10**;

fahren=int(RANUNI(**0**)\***181**+**32**);

output;

end;

drop obs;

**run**;

**data** temper2;

set temper1;

celsius=**5**/**9**\*(fahren-**32**);

**run**;

**6-2**

**data** exam6\_2;

input id$ q1-q6;

small=min(of q1-q6);

big=max(of q1-q6);

total=sum(of q1-q6);

mean=mean(of q1-q6);

cards;

001 3 2 5 4 4 3

002 . 2 1 2 1 2

003 5 3 4 4 . 5

;**run;**

**6-3**

**data** exam6\_2;

input id$ q1-q6;

if q6>=(**3**+**2**+**5**)/**3** then group='gtmean';

else group='ltmean';

cards;

001 3 2 5 4 4 3

002 . 2 1 2 1 2

003 5 3 4 4 . 5

;**run;**

**6-4(retain)**

**data** exam6\_4;

input id x1-x3;

cards;

2 21 22 23

5 51 52 53

5 51 52 53

1 11 12 13

3 31 32 33

3 31 32 33

4 41 42 43

;**run**;

**proc** **sort** data=exam6\_4; by id;

**data** nexam6\_4;

set exam6\_4;

retain oldid **0**;

if oldid=id then delete;

oldid=id;

drop oldid;

**run**;

**6-4(lag)**

**data** exam6\_4;

input id x1-x3;

cards;

2 21 22 23

5 51 52 53

5 51 52 53

1 11 12 13

3 31 32 33

3 31 32 33

4 41 42 43

;**run**;

**proc** **sort** data=exam6\_4;

by id;

**run**;

**data** nexam6\_4;

set exam6\_4;

oldid=lag(id);

if id=oldid then delete;

drop oldid;

**run**;

**6-5**

**data** exam6\_5;

input x1-x5 a b c d y1-y5 z1-z3;

array x[**5**] x1-x5;

array e[**4**] a b c d;

array yz[**8**] y1-y5 z1-z3;

do i=**1** to **5**;

if x[i]=**9** then x[i]=**.**;

end;

drop i;

do i=**1** to **4**;

if e[i]=**99** then e[i]=**.**;

end;

drop i;

do i=**1** to **8**;

if yz[i]=**999** then yz[i]=**.**;

end;

drop i;

cards;

1 0 1 0 1 2 2 2 2 1 2 3 4 5 3 3 3

9 0 0 0 9 99 99 99 7 999 999 4 5 6 999 999 999

;**run**;

**6-8**

**data** date;

input Proect\_ID StartDate date9. +**1** EndDate date9.;

intvdate=enddate-startdate;

cards;

398 17mar2007 02nov2007

942 22jan2008 11jul2008

167 15aug2009 15feb2010

250 04jan2011 11dec2011

;**run**;

**6-9**

**data** missing;

input x1-x5;

array x(**5**) x1-x5;

do i=**1** to **5**;

if x(i)=**.** then x(i)=**0**;

end;

drop i;

cards;

9 8 7 8 .

8 7 6 . 9

. . 9 7 6

;**run**;