Solutions to Practices

1. Using the LARGEST and ROUND Functions

```
proc print data=pg2.np_lodging(obs=10);
    where CL2010>0;
run;

data stays;
    set pg2.np_lodging;
    Stay1=largest(1, of CL:);
    Stay2=largest(2, of CL:);
    Stay3=largest(3, of CL:);
    StayAvg=round(mean(of CL:));
    if StayAvg > 0;
    keep Park Stay:;
    format Stay: comma11.;
run;
```

2. Working with Date/Time Values

```
data rainsummary;
    set pg2.np_hourlyrain;
    by Month;
    if first.Month=1 then MonthlyRainTotal=0;
    MonthlyRainTotal+Rain;
    if last.Month=1;
    Date=datepart(DateTime);
    MonthEnd=intnx('month',Date,0,'end');
    format Date MonthEnd date9.;
    keep StationName MonthlyRainTotal Date MonthEnd;
run;
```

3. Creating Projected Date Values

```
proc sort data=pg2.np_weather(keep=Name Code Date Snow)
          out=winter2015_2016;
    where date between '01Oct15'd and '01Jun16'd and Snow > 0;
    by Code Date;
run;

data snowforecast;
    set winter2015_2016;
    retain FirstSnow;
    by Code;
    if first.Code then FirstSnow=Date;
    if last.Code then do;
        LastSnow=Date;
        WinterLengthWeeks=intck('week',FirstSnow, LastSnow, 'c');
```

```
        ProjectedFirstSnow=intnx('year', FirstSnow, 1, 'same');
        output;
    end;
    format FirstSnow LastSnow ProjectedFirstSnow date7.;
    drop Snow Date;
run;
```

End of Solutions