

Solutions to Practices

4. Using the SCAN and PROPCASE Functions

```
data clean_traffic;
    set pg2.np_monthlytraffic;
    drop Year;
    length Type $ 5;
    Type=scan(ParkName, -1);
    Region=upcase(compress(Region));
    Location=propcase(Location);
run;
```

5. Searching for Character Strings

```
data parks;
    set pg2.np_monthlytraffic;
    where ParkName like '%NP';
    Park=substr(ParkName, 1, find(ParkName, 'NP')-2);
    Location=compbl(propcase(Location));
    Gate=tranwrd(Location, 'Traffic Count At ', ' ');
    GateCode=catx('-', ParkCode, Gate);
run;

proc print data=parks;
    var Park GateCode Month Count;
run;
```

6. Determining the Maximum Length of a Column

```
data parklookup;
    set pg2.np_unstructured_codes end=lastrow;
    length ParkCode $ 4 ParkName $ 83;
    ParkCode=scan(Column1, 2, '{ } : , " ( ) - ');
    ParkName=scan(Column1, 4, '{ } : , " ( ) ');
    retain MaxLength 0;
    NameLength=length(ParkName);
    MaxLength=max(NameLength, MaxLength);
    if lastrow=1 then putlog MaxLength=;
run;

proc print data=parklookup(obs=10);
run;

proc contents data=parklookup;
run;
```

End of Solutions