

(2) DATA PROCESSING

*** CONDITIONAL PROCESSING;

*** If-Then-Else;**

```
data teams_warm teams_cool teams_neut;
set teams;
if team in ('Red','Orange','Yellow') then output teams_warm;
else if team in ('Green','Blue','Purple') then output teams_cool;
else output teams_neut;
```

*** Select-When-End;**

```
data teams_warm teams_cool teams_neut;
set teams;
select;
    when (team in ('Red','Orange','Yellow')) output teams_warm;
    when (team in ('Green','Blue','Purple')) output teams_cool;
    otherwise output teams_neut;
end;
```

*** LOOP PROCESSING;

*** Iterative Loop;**

```
do i=2 to 10 by 2;
end;
```

```
do i=2,4,6,8,10;
end;
```

*** Conditional Loop;**

```
do while (value<1000);
end;
```

```
do until (value>=1000);
end;
```

```
do;
if value<1000 then continue;
end;
```

```
do;
if value>=1000 then leave;
end;
```

*** Iterative Conditional Loop;**

```
do i=2 to 10 by 2 while (value<1000);
end;
```

```
do i=2 to 10 by 2 until (value>=1000);
end;
```

```
do i=2 to 10 by 2;
if value<1000 then continue;
end;
```

```
do i=2 to 10 by 2;
if value>=1000 then leave;
end;
```

```
*** ARRAY PROCESSING;
```

```
  * Defining Arrays;
```

```
    array bat_values{5} b2008-b2012;

    array all_values{*} b2008--r2012;

    array all_num{*} b2008-numeric-r2012;

    array mid_values{8:12} b2008-b2012;

    array mid_values b2008-b2012;

    array new_values{*} $8. n2008-n2012 ('A','B','C','D');

    array temp_values{4} _temporary_ (10,20,30,40);
```

```
  * Array Loops;
```

```
    do i=1 to 5;
      bat_values{i}=bat_values{i}/3.28084;
    end;

    do i=1 to dim(all_values);
      all_values{i}=all_values{i}/3.28084;
    end;

    do i=8 to 12;
      mid_values{i}=mid_values{i}/3.28084;
    end;

    do i=lbound(mid_values) to hbound(mid_values);
      mid_values{i}=mid_values{i}/3.28084;
    end;

    do over mid_values;
      mid_values=mid_values/3.28084;
    end;
```

```
  * Array Operations;
```

```
    total=sum(of values{*});

    total=sum(of b:);

    call missing(of values{*});
```