

## SAS Arrays

```

DATA dat;
  INPUT prod $ f1-f3;
  ARRAY f{3} f1-f3;
  ARRAY c{3} c1-c3;
  DO i=1 to 3;
    c{i}=( f{i}-10 );
  END;

  CARDS;
acy    10 40 50
xyz    30 70 80
;

PROC PRINT data=dat;
  title1 'Explicit Array Example';
RUN;quit;
  
```

## Results

Explicit Array Example

Obs	prod	f1	f2	f3	c1	c2	c3	i
1	acy	10	40	50	0	30	40	4
2	xyz	30	70	80	20	60	70	4

## SAS Group by Data Processing(counter)

```

Data t;
  input a MMDDYY8. b C;
cards;
01/01/97 1 1
02/02/97 1 1
03/03/97 1 0
04/04/97 1 1
05/05/97 1 0
06/06/97 1 1
01/01/97 2 1
02/02/97 2 1
03/03/97 3 0
04/04/97 3 1
05/05/97 4 0
06/06/97 4 1
07/07/97 4 0
;

PROC SORT DATA=T;
BY B A;
DATA T1;
SET T;
  BY B;
IF FIRST.B THEN T1=0;
T1+1 ;

proc print data=t1;
format a mmddy8.;
run;
  
```

## Results

Obs	a	b	C	T1
1	01/01/97	1	1	1
2	02/02/97	1	1	2
3	03/03/97	1	0	3
4	04/04/97	1	1	4
5	05/05/97	1	0	5
6	06/06/97	1	1	6
7	01/01/97	2	1	1
8	02/02/97	2	1	2
9	03/03/97	3	0	1
10	04/04/97	3	1	2
11	05/05/97	4	0	1
12	06/06/97	4	1	2
13	07/07/97	4	0	3