

PERM

Description: The PERM macro returns the number of permutations given n elements taken x at a time.

Syntax

```
%PERM(nElements, xAtaTime, MyPerm);
```

Notes

The values for *nElements*, and *xAtaTime* need to be whole positive numbers. A value of missing or negative will return a missing value. The parameter for *nElements* must also be larger than the argument for *xAtaTime*, otherwise PERM will return a missing value.

Example

```
data a;  
  totelem = 6;  
do n = 1 to 4;  
  %perm(totelem, n, myperm);  
  output;  
end;  
  
run;  
  
proc print data=a;  
run;
```

WPS Listing

The WPS System

Obs	totelem	N	myperm
1	6	1	6
2	6	2	30
3	6	3	120
4	6	4	360