



\mathcal{O}		array{1}	array{2}	array{3}	array{4}						
	SAS: Arrays	rate2005	rate2006	rate2007	rate2008						
	 All variables in one array must be of the same type Variables specified within an array do not need to already exist 										
	 array aname {dim} [\$len] elements array rate {4} rate2005-rate2008; array rate {*} rate2005-rate2008; array rate {*} rate2005-rate2008; 										
	 array rate {4}; "implicit: rate1-rate4; Dim(Dimension): how many elements 										
	 \$len: type and length of variables when strings Omitted for numerical variables Array name{3} \$10.; 										
	elements: list of variables										
	 index: an integer pointer that identifies the element in the array 										
	 array {index} or array [index] 										
BY NO SA	 rate2006 is indexed by 2 										







	Looping				
	Goal: I have a task (piece of code) that I want to repeat over and over again on a list of data.				
	How could I do that?				
	<pre>* Brute Force: Cut & Paste & Tweak if cigever=1 then bcigever=1; else if cigever=2 then bcigever=0;</pre>				
	<pre>if alcever=1 then balcever=1; else if alcever=2 then balcever=0;</pre>				
	<pre>if cocever=1 then bcocever=1; else if cocever=2 then bcocever=0;</pre>				
POPULATION INFORMATICS	<pre>if mjever=1 then bmjever=1; else if mjever in (0,2) then bmjever=0;</pre>				

ever{1}	ever{2}	ever{3}	ever{4}	bever{1}	bever{2}	bever{3}	bever{4}			
Indent Why?	<pre>alcever cocever mjever bcigever balcever bcocever bmjever * Using arrays is much more elegant and accurate; array ever{4} cigever alcever cocever mjever; array bever{4} bcigever balcever bcocever bmjever; do i=1 to 4; if ever{i}=1 then bever{i}=1; else if ever{i} in (0, 2) then bever{i}=0; end;</pre>									
	<pre>* Even better, more extensible, using arrays; array ever {*} cigever alcever cocever mjever; array bever {*} bcigever balcever bcocever bmjever; do i=1 to dim(ever); * uses the dimension of the array; if ever {i}=1 then bever {i}=1; else if ever {i} in (0, 2) then bever {i}=0; end;</pre>									























