How do I create an individual-level file from a couple- level file?

Perhaps you have a couple level file that looks like this:

Couple Id	Male age	Fem age	Male Inc	Fem Inc
1	45	42	40000	35000
2	32	35	17000	24000
3	65	62	45000	.
4	21	22	15000	12000
5	54	54	.	75000
6	32	36	45000	50000

To get an observation for each person in the couple you need to do the following:

```
data person(keep=age cid pid sex income);
set couples;
retain age income cid sex ;
sex= 0 ;
array a( 2 )mage fage;
array inc( 2 )minc finc;
do i= 1 to 2 ;
sex=sex+ 1 ;
age=a(i);
income=inc(i); output ;
pid+ 1 ;
end ;
run ;
```

- Keep= tells SAS to create a new dataset with only those three variables.
- Retain holds the value over through the iterations performed in the data step.
- Sex=0 initializes the variable.
- Do i=1 to 2 tells SAS the range of variables. The age=a(i) and income=inc(i) sets the new variables called 'age' and 'income' equal to the appropriate array variables.
- Output prior to the end statement outputs an observation for each person in the couple.
- pid +1 is a count variable that assigns a new person level id number.

Now the data look like this

cid	age	income	sex	pid
1	45	40000	1	0
1	42	35000	2	1
2	32	17000	1	2
2	35	24000	2	3
3	65	45000	1	4
3	62		2	5
4	21	15000	1	6
4	22	12000	2	7
5	54		1	8
5	54	75000	2	9
6	32	45000	1	10
6	36	50000	2	11