

Following is a response from DHS staff member Tom Pullum:

I think the following will do what you want to do. I have simplified the variable names. The order of the lines after "impose a hierarchy" is crucial--I'm keeping the same sequence you had. I don't know where the difference from your code is; I just approached in a little differently. Hope this helps.

```
use "...PKIR71FL.DTA" , clear
```

```
local letters_home   a b  
local letters_public e f g h i  
local letters_private m n o p q s x
```

```
gen AN_home=0 if m57a_1<.  
foreach ll of local letters_home {  
  replace AN_home=1 if m57`ll'_1==1  
}
```

```
gen AN_public=0 if m57a_1<.  
foreach ll of local letters_public {  
  replace AN_public=1 if m57`ll'_1==1  
}
```

```
gen AN_private=0 if m57a_1<.  
foreach ll of local letters_private {  
  replace AN_private=1 if m57`ll'_1==1  
}
```

```
tab1 AN_*
```

```
tab AN_home AN_public  
* 24 cases of overlap
```

```
tab AN_home AN_private  
* 33 cases of overlap
```

```
tab AN_public AN_private  
* 410 cases of overlap
```

```
* Impose a hierarchy; public or private trumps home and private trumps public  
gen ANtype=.  
replace ANtype=0 if AN_home==1
```

```
replace ANtype=1 if AN_public==1
replace ANtype=2 if AN_private==1
label var ANtype "Type of Facilities"
label values ANtype ANtype
tab ANtype, m
```
