

Answers

1. If the data is ASCII data, only e) is different as it doesn't actually check that there is a code 1, 2, 3 or 4 – it could be blank and would not fail the check. If the data is binary, it is possible to have more than one code in a field. In that case, a) and c), for example, are different as a) checks that column 55 is code 1 to 4 and the whole column is single whereas c) will only check that 1,2,3,4 have a single answer.
2. You could check each pair of codes like this:

```
dm $test=$q5a/1,$q5b/1,  
if $test/m,list $q5a.$q5b,  
dm $test=$q5a/2,$q5b/2,  
if $test/m,list $q5a.$q5b,  
!!etc. for codes 3 to 8  
!!You also need to check that None of these doesn't appear with a brand  
if $q5a/9.1..8,list $q5a,  
if $q5b/9.1..8,list $q5b,
```

Alternatively, you could use .and. which makes tidier code

```
Dm $test=$q5a.and.$q5b,  
If $test/1..8,list $q5a.$q5b,  
if $q5a/9.1..8,list $q5a,  
if $q5b/9.1..8,list $q5b,
```

3. Ck \$76/1 = \$77/nb,
4. Di items_total=\$16-20 + \$21-25 + \$26-30,
If \$items_total.ne.\$11-15,list \$11-15.\$16-20.\$21-25.\$26-30.\$items_total,