

```
.....
Data rs;
    INPUT caseuse$ controluse$ num;
    DATALINES;
Y Y 1
Y N 4
N Y 8
N N 19
;
RUN;
/*Q4a*/
.....
DATA rsindiv;
    SET rs;
    RETAIN id 0;
    DO id=id+1 to id+num;
        exposure=caseuse; outcome='case'; output;
        exposure=controluse; outcome='control'; output;
    END;
    KEEP id exposure outcome;
RUN;

.....
PROC FREQ DATA=rsindiv ORDER=DATA;
    TABLE id*exposure*outcome / CMH NOPRINT;
RUN;

.....
/*Q4b*/
.....
PROC FREQ DATA=rs ORDER=data;
    TABLES caseuse*controluse / NOPERCENT NOCOL NOROW AGREE PLOTS=none;
    WEIGHT num;
RUN;
```