









$$C_1$$
=2, X =21+4=25
 C = C_1 + $(V-X)$ -1=2+ $(36-25)$ -1=12 components

Pseudo code:

```
//C1: The number of connected components formed by the X vertices int C1=0,X=0; for each group value g in group{
    if(g>1) {
        C1=C1+1;
        X=X+g;
    }
    int C=C1+(V-X)-1; // -1: Note that if G is connected, then C = 1 (already computed)
```