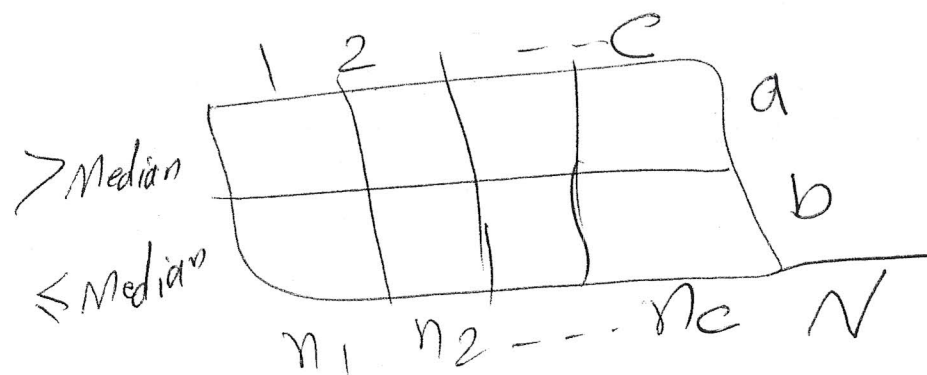


4.3 The Median test



H_0 : All the Populat. have the same Med.
 $q_2 = \dots = q_c$
 H_a : Not all q_i are equal

Test: χ^2

$$\chi^2 = \frac{N^2}{ab} \sum_{i=1}^c \frac{(o_{1i} - \frac{n_{1i}a}{N})^2}{n_{1i}}$$

note: If $a \approx b$

$$\chi^2 = \sum \frac{(o_{1i} - o_{2i})^2}{n_i}$$

Hand calculat.

$$\chi^2 = \frac{N^2}{ab} \sum_{i=1}^c \frac{o_{1i}^2}{n_i} - \frac{Na}{b}$$