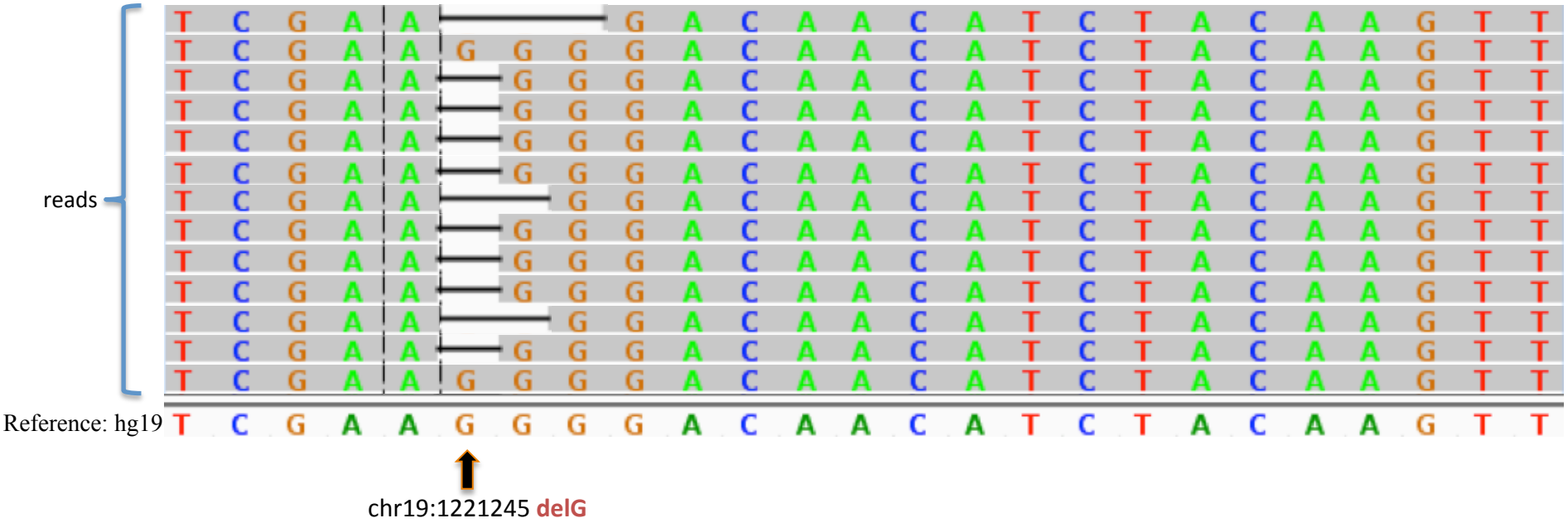
An example of calculating *var* and *frmode*



N = number of reads containing indel (deletion of G in this example) at the indel position (e.g. chr19:1221245)= 11
X= vector of size N containing indel (deletion) lengths = [1,2,1,1,1,2,1,1,1,1,3]
μ = mean of indel lengths = (1+2+1+1+1+2+1+1+1+1+3)/11=1.36
var = variance of indel length (formula at the bottom right) = 0.41
Mode of distribution of indel lengths = the most common indel(deletion) length at the indel position =1
frmode of indel lengths = frequency of the most common indel length at that position: in 8 out of 11 reads the most common indel length is 1, therefore frmode = 8/11 = 0.73.

$$\sigma^2 = \frac{\sum (X-\mu)^2}{N}$$