1. Relationship between allele frequencies
   and genotype frequencies is given by

$$f(G_1) = p \; ; \; f(G_2) = q$$

$$f(G_1 G_1) = p^2 \; ; \; f(G_1 G_2) \; 2 \cdot pq \; ; \; f(G_2 G_2) = q^2$$

2. Under random mating, genotype frequencies
   and allele frequencies stay constant
   from generation to the next one.

Adding values for phenotypic observations