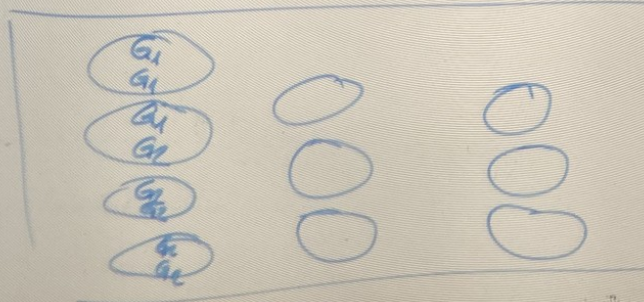


pass a random sample of genes/alleles

- Given, we want to improve a certain trait of animals in a population, then we select animals as parents that pass positive/favorable alleles to their offspring.

⇒ Understand genetic background (Locus G_i) that has an effect on phenotypic observation (Y)



$N=10$ At Locus G_i :
2 variants G_{i1} and G_{i2} (alleles)

Genotype frequencies
Allele frequencies
Hardy-Weinberg