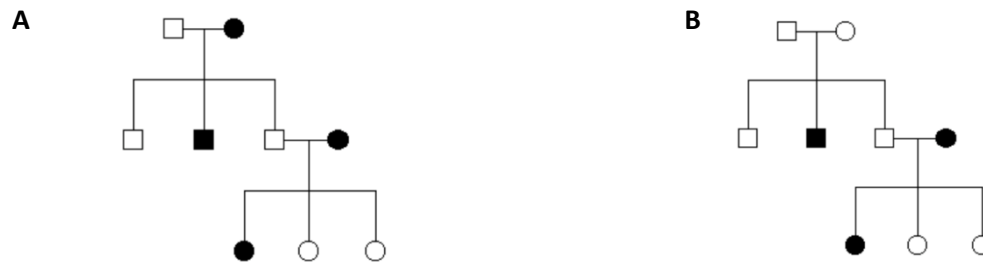


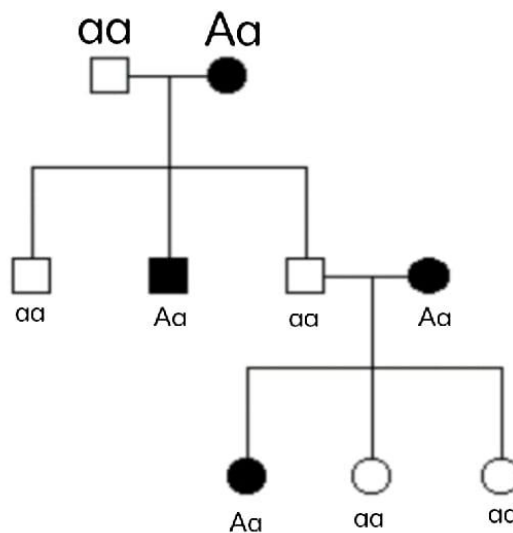
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ASSIGNMENT-3

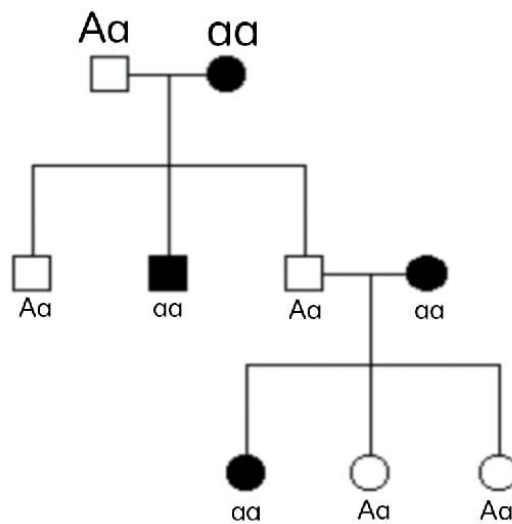
In the picture A and B (see below) pedigree of a trait controlled by either dominant or recessive gene action is shown. Explain which pedigree represents dominant and which one represent recessive gene and why?



- A) Since pedigree can be drawn with both dominant and recessive genes, we cannot predict which exact trait is the picture A. Hence the trait in picture A **can be controlled by both dominant and recessive gene**.

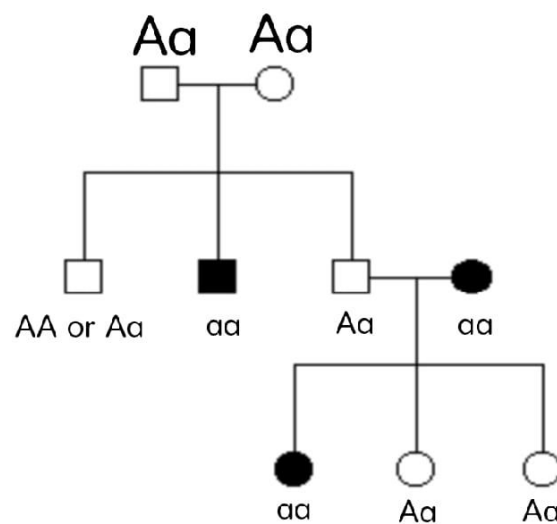


Pedigree for A – Dominant gene



Pedigree for A – Recessive gene

- B) With dominant gene pedigree of B cannot be drawn, every child in the stage (ii) will be affected by the gene and should be darkened but that is not the case. Hence The trait in picture B can only be **controlled by recessive gene**.



Pedigree for B – Recessive gene