Key Takeaways

Symmetric and skew symmetric Matrix:

A square matrix A is said to be symmetric if, $A' = A$

Let $A = [a_{ij}]_n$, then $a_{ij} = a_{ji}$, $\forall\ i\ \&\ j$

Example:

$$A = \begin{pmatrix} 3 & -1 & 2 \\ -1 & 4 & 5 \\ 2 & 5 & 7 \end{pmatrix} \longrightarrow \begin{matrix} a_{12} = a_{21} \\ a_{13} = a_{31} \\ a_{23} = a_{32} \end{matrix}$$

$$A' = \begin{pmatrix} 3 & -1 & 2 \\ -1 & 4 & 5 \\ 2 & 5 & 7 \end{pmatrix} = A$$

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