Graphs

→ A [cycle] is a path that starts and ends at the same node.

Other than the start/end node, nodes aren't allowed to repeat, & neither are edges.

→ A connected component is a maximal group of nodes that are all connected to each other

↳ if a node is able to be in the component, then it must be.

→ In a directed graph, a node X can reach another node Y if there's a path from X to Y.

→ In particular, two nodes are strongly connected if both of them can reach each other.

→ A [connected] graph has only 1 connected component. So every node is connected to every other node.

→ A [complete] graph has every node adjacent to every other node. Every possible edge exists.

→ An [acyclic graph] has no cycles (also known as a forest)