

| Graph Types | Example Input | Output |
|-------------|---|---|
| Independent | $\left[\begin{array}{c} \textcircled{1} \\ \textcircled{2} \\ \textcircled{3} \end{array} \right]$ | \longrightarrow $\textcircled{1} \quad \textcircled{2} \quad \textcircled{3}$ |
| Chain | $\left[\begin{array}{c} \textcircled{1} \\ \textcircled{2} \\ \textcircled{3} \end{array} \right]$ | \longrightarrow $\textcircled{1} \text{---} \textcircled{2} \text{---} \textcircled{3}$ |
| Ring | $\left[\begin{array}{c} \textcircled{1} \\ \textcircled{2} \\ \textcircled{3} \end{array} \right]$ | \longrightarrow |
| Grid | $\left[\left[\begin{array}{c} \textcircled{1} \\ \textcircled{4} \end{array} \right], \left[\begin{array}{c} \textcircled{2} \\ \textcircled{5} \end{array} \right], \left[\begin{array}{c} \textcircled{3} \\ \textcircled{6} \end{array} \right] \right]$ | \longrightarrow |
| HMM | $\left[\begin{array}{c} \textcircled{1} \\ \textcircled{2} \\ \textcircled{3} \end{array} \right]$ | \longrightarrow |
| Star | $\left[\begin{array}{c} \textcircled{1} \\ \textcircled{2} \\ \textcircled{3} \end{array} \right]$ | \longrightarrow |
| Cylinder | $\left[\begin{array}{c} \textcircled{1} \\ \textcircled{2} \\ \textcircled{3} \end{array} \right]$ | \longrightarrow |