

Handwritten Problem

Given an **undirected** connected graph, check if the graph contains a cycle.

```
bool is_graph_cyclic(const vector<vector<int>>& adj_list);
```

Feel free to use a helper function!

You can assume that if u and v are adjacent, then $\text{adj_list}[u]$ will contain v and $\text{adj_list}[v]$ will contain u . Also, u will not appear in $\text{adj_list}[u]$.

Complexity: $O(V + E)$ time