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In [17]: import networkx as nx
import json
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In [18]: def create_deck_graphs(decklists, full_graph):
    deck_graphs = {}

    for idx, deck in enumerate(decklists):
        deck_graph = nx.DiGraph()
        deck_card_ids = set(card_id for card_dict in deck for card_id in card_dict.keys())

        copies_mapping = {}
        for card_dict in deck:
            for card_id, count in card_dict.items():
                copies_mapping[card_id] = count

        for card_id in deck_card_ids:
            if card_id in full_graph.nodes:
                node_attrs = full_graph.nodes[card_id].copy()
                node_attrs["copies"] = copies_mapping.get(card_id, 0)
                deck_graph.add_node(card_id, **node_attrs)

        for source, target, data in full_graph.edges(data=True):
            if source in deck_card_ids and target in deck_card_ids:
                deck_graph.add_edge(source, target, **data)

        print(f"Deck {idx} has {len(deck_graph.nodes)} nodes and {len(deck_graph.edges)} edges")
        deck_graphs[f"deck_{idx}"] = deck_graph

    return deck_graphs

def export_deck_graphs(deck_graphs):
    for deck_name, graph in deck_graphs.items():
        nx.write_graphml(graph, f"graphs/deck-lists/{deck_name}.graphml")
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In [19]: with open("data/one_piece_deck_lists.json", "r") as f:
    decklists = json.load(f)

    # read complete synergy graph
    full_graph = nx.read_graphml("graphs/card_synergies.graphml")
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In [20]: deck_graphs = create_deck_graphs(decklists, full_graph)
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Deck 0 has 16 nodes and 57 edges  
Deck 1 has 19 nodes and 19 edges  
Deck 2 has 16 nodes and 58 edges  
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Deck 5 has 17 nodes and 58 edges  
Deck 6 has 14 nodes and 24 edges  
Deck 7 has 15 nodes and 53 edges  
Deck 8 has 16 nodes and 29 edges  
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Deck 10 has 17 nodes and 42 edges  
Deck 11 has 17 nodes and 58 edges  
Deck 12 has 17 nodes and 92 edges  
Deck 13 has 18 nodes and 80 edges  
Deck 14 has 17 nodes and 72 edges  
Deck 15 has 15 nodes and 15 edges  
Deck 16 has 17 nodes and 17 edges  
Deck 17 has 16 nodes and 56 edges  
Deck 18 has 18 nodes and 96 edges  
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Deck 1267 has 18 nodes and 89 edges  
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Deck 1269 has 17 nodes and 58 edges  
Deck 1270 has 15 nodes and 28 edges  
Deck 1271 has 16 nodes and 108 edges  
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Deck 1273 has 17 nodes and 59 edges  
Deck 1274 has 16 nodes and 72 edges  
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Deck 1276 has 17 nodes and 59 edges  
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Deck 1278 has 16 nodes and 93 edges  
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Deck 1299 has 15 nodes and 87 edges  
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Deck 1314 has 16 nodes and 85 edges  
Deck 1315 has 16 nodes and 75 edges  
Deck 1316 has 16 nodes and 84 edges  
Deck 1317 has 15 nodes and 69 edges  
Deck 1318 has 15 nodes and 69 edges  
Deck 1319 has 16 nodes and 93 edges

Deck 1320 has 16 nodes and 50 edges  
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Deck 1323 has 15 nodes and 80 edges  
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Deck 1330 has 15 nodes and 69 edges  
Deck 1331 has 17 nodes and 59 edges  
Deck 1332 has 16 nodes and 72 edges  
Deck 1333 has 17 nodes and 59 edges  
Deck 1334 has 17 nodes and 99 edges  
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Deck 1337 has 15 nodes and 69 edges  
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Deck 1348 has 17 nodes and 57 edges  
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Deck 1362 has 16 nodes and 75 edges  
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Deck 1374 has 15 nodes and 69 edges  
Deck 1375 has 16 nodes and 93 edges  
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Deck 1378 has 18 nodes and 61 edges  
Deck 1379 has 18 nodes and 61 edges



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Deck 1404 has 15 nodes and 69 edges  
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Deck 1499 has 16 nodes and 60 edges

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Deck 1619 has 18 nodes and 62 edges

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Deck 1725 has 17 nodes and 72 edges  
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Deck 1729 has 15 nodes and 68 edges  
Deck 1730 has 16 nodes and 56 edges  
Deck 1731 has 15 nodes and 69 edges

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In [21]: export_deck_graphs(deck_graphs)
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