

Kruskal's Algorithm

SmallGraph1

```
"kruskal" : {  
  "algorithm" : "Kruskal",  
  "total_cost" : 10.0,  
  "execution_time_ms" : 1,  
  "operations" : 9,  
  "vertex_count" : 4,  
  "edge_count" : 5,  
  "mst_edges" : [ {  
    "from" : "B",  
    "to" : "C",  
    "weight" : 2.0  
  }, {  
    "from" : "A",  
    "to" : "C",  
    "weight" : 3.0  
  }, {  
    "from" : "B",  
    "to" : "D",  
    "weight" : 5.0  
  } ]  
}
```

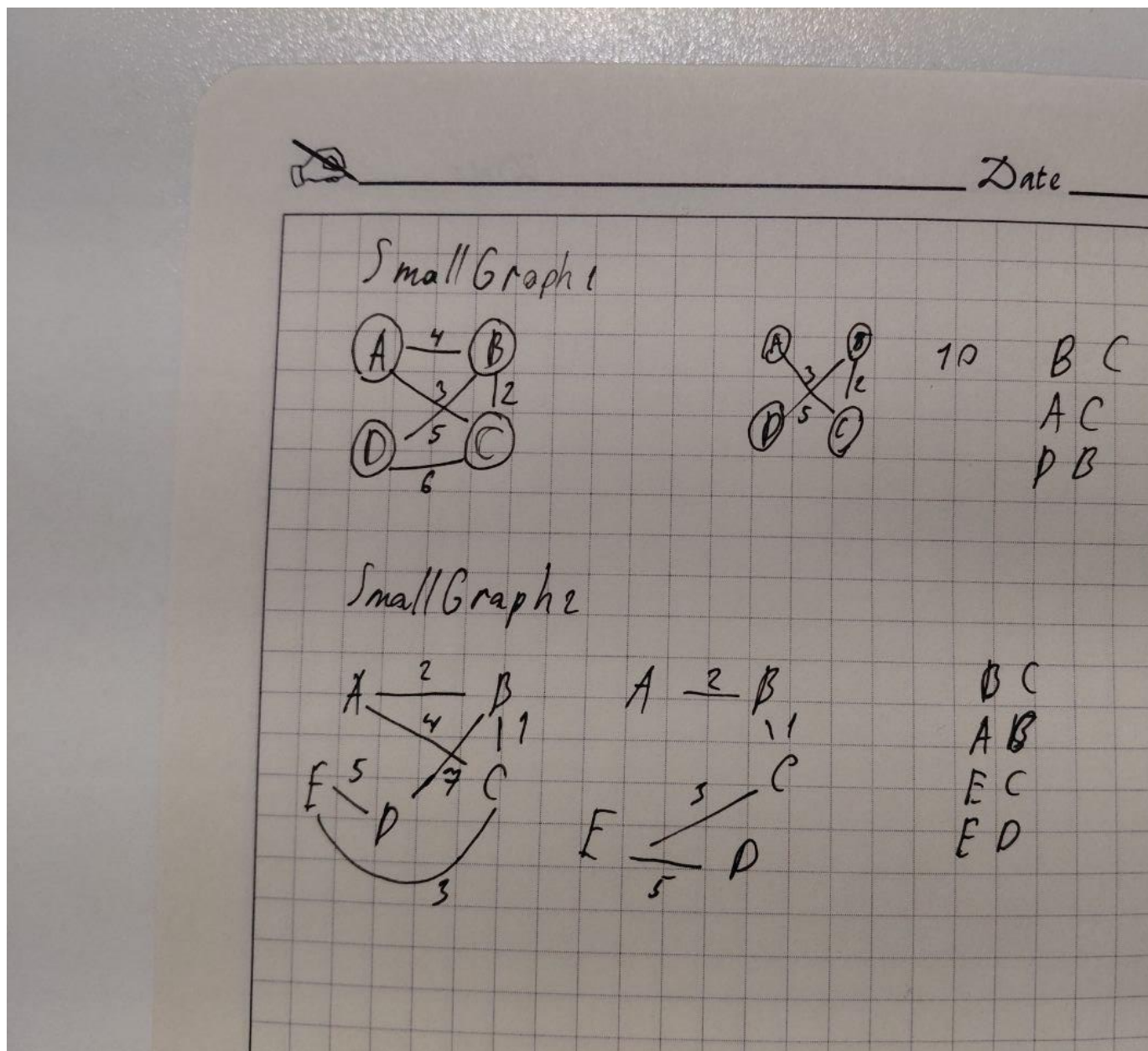
SmallGraph2

```
"kruskal" : {  
  "algorithm" : "Kruskal",  
  "total_cost" : 11.0,  
  "execution_time_ms" : 0,  
  "operations" : 11,  
  "vertex_count" : 5,  
  "edge_count" : 6,  
  "mst_edges" : [ {  
    "from" : "B",  
    "to" : "C",  
    "weight" : 1.0  
  }, {  
    "from" : "A",  
    "to" : "B",  
    "weight" : 2.0  
  }, {
```

```

    "from" : "C",
    "to" : "E",
    "weight" : 3.0
  }, {
    "from" : "D",
    "to" : "E",
    "weight" : 5.0
  } ]
}

```



Prim's Algorithm

SmallGraph1

```
"prim" : {  
  "algorithm" : "Prim",  
  "total_cost" : 10.0,  
  "execution_time_ms" : 6,  
  "operations" : 9,  
  "vertex_count" : 4,  
  "edge_count" : 5,  
  "mst_edges" : [ {  
    "from" : "A",  
    "to" : "C",  
    "weight" : 3.0  
  }, {  
    "from" : "C",  
    "to" : "B",  
    "weight" : 2.0  
  }, {  
    "from" : "B",  
    "to" : "D",  
    "weight" : 5.0  
  } ]  
}
```

SmallGraph2

```
"prim" : {  
  "algorithm" : "Prim",  
  "total_cost" : 11.0,  
  "execution_time_ms" : 0,  
  "operations" : 11,  
  "vertex_count" : 5,  
  "edge_count" : 6,  
  "mst_edges" : [ {  
    "from" : "A",  
    "to" : "B",  
    "weight" : 2.0  
  }, {  
    "from" : "B",  
    "to" : "C",  
    "weight" : 1.0  
  }, {  
    "from" : "C",  
    "to" : "E",  
    "weight" : 3.0  
  } ]  
}
```

```

}, {
  "from" : "E",
  "to" : "D",
  "weight" : 5.0
} ]
}

```

