```
lass Node {
public class Graph {
                                                  Code Replication
                                                                                              color:
  Edge add(Node n, Node m) {
   Edge e = new Edge(n, m);
                                                                                           if (Config.COLORED) {
   nodes.add(n); nodes.add(m); edges.add(e);
                                                                                             color = new Color():
   if (Config.WEIGHTED) { e.weight = new Weight():
   return e
                                                                                         void print() {
  Edge add(Node n, Node m, Weight w) {
                                                                                           if (Config.COLORED) {
   if (!Config.WEIGHTED) { throw new RuntimeException(); }
                                                                                             Color.setDisplayColor(color);
   Edge e = new Edge(n, m):
   nodes.add(n); nodes.add(m); edges.add(e);
                                                                                           System.out.print(id);
   e.weight = w;
   return e
                                                                                       oublic class Edge {
                                                                                         Weight weight:
public class Color {
                                                                                         Ladge(Node _a, Node _b) {
  static void setDisplayColor(Color c) { ...}
                                                                                          a = _a; b = _b;
                                                                                           if (Config.WEIGHTED) { weight = new Weight(); }
                                                                                         void print() {
                                                                                           a.print(); b.print();
public class Weight {
                                                                                           if (Config.WEIGHTED) { weight.print(); }
 void print() { ...}
```