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package de.dakrror.wseminar;  import java.awt.animation.Interpolator;  public class Const {  public static int cellSize = 24;  public static int nodeAmount = 20;  public static int edgeAmount = 3;  public static int edgesMaxCost = 30;  public static Interpolator overlyEaseIn = Interpolator.SPLINE(1.43, .65, .19, 1);  public static int visualModeTimout = 250;  public static int
defaultCycles = 500;  public enum State { START, GOAL, OPENLIST, CLOSEDLIST, BACKTRACK,  REVERT; }  package de.dakrror.wseminar.controller;  import java.net.URI;  import java.util.ResourceBundle;  import javafx.fxml.FXML;  import javafx.scene.control.Button;  import javafx.scene.control.Label;  import javafx.scene.image.ImageView;  import javafx.stage.Stage;  import java.io.File;
AlertController  {FXML private ResourceBundle resources;  {FXML private URL location;  {FXML private ImageView logo;  {FXML private Label details;  {FXML private Button okButton;  {FXML private Label message;  {FXML void initialize() { okButton.setOnAction(e -> {(Stage) okButton.getScene().getWindow().close();  }  }  package de.dakrror.wseminar.controller;  import
java.net.URI;  import java.util.ResourceBundle;  import de.dakrror.wseminar.Const;  import de.dakrror.wseminar.Main;  import de.dakrror.wseminar.algorithm.base.PathFinder;  import de.dakrror.wseminar.math.Vector2;  import de.dakrror.wseminar.ui.PathLineChart;  import de.dakrror.wseminar.ui.VisualVertex;  import de.dakrror.wseminar.util.Benchmark;  import
de.dakrror.wseminar.graph.generate.Params;  import de.dakrror.wseminar.graph.generate.Params.SParams;  import javafx.event.ActionEvent;  import javafx.event.EventHandler;  import javafx.fxml.FXML;  import javafx.scene.control.Button;  import javafx.scene.control.ChoiceBox;  import javafx.scene.control.Label;  import javafx.scene.control.Slider;  import javafx.scene.control.TextField;
import javafx.scene.control.TitledPane;  import javafx.scene.control.ToggleGroup;  import javafx.scene.image.ImageView;  import javafx.scene.layout.GridPane;  import javafx.scene.layout.HBox;  import javafx.stage.Stage;  import javafx.util.StringConverter;  {FXML private ResourceBundle resources;  {FXML private URL location;  {FXML private
GridPane adv_method;  {FXML private TitledPane advanced;  {FXML private Slider graph_size;  {FXML private Slider edge_cost;  {FXML private Button okButton;  {FXML private HBox okPanel;  {FXML private Label messageLabel;  {FXML private Button cancelButton;  {FXML private TextField graph_seed;  {FXML private ImageView logo;  {FXML private Slider node_cost;  {FXML private
ChoiceBox<String> edge_type;  {FXML private Slider cost;  {FXML private int speed = 400;  {FXML private long seed = 0;  {FXML void initialize() { graph_size.setLabelFormatter(new StringConverter<Double>() { @Override public String toString(Double object) { return size(object.intValue());  }  @Override public Double fromString(String string) { return
Arrays.asList(sizes).indexOf(string) + 1d;  }  });  logo.setImage(NSeminar.getImage("new_graph-50.png"));  edge_type.getItems().addAll("Ungerichtet", "Gerichtet", "Gemischt");  edge_type.setValue(edge_type.getItems().get(0));  EventHandler<ActionEvent> close = e -> {(Stage) cancelButton.getScene().getWindow().close();  cancelButton.setOnAction(close);  okButton.setOnAction(e ->
edge_type.getItems().indexOf(edge_type.getValue()));  if (node_count.getValue() != Const.nodeAmount) {  param.put("nodes", (int) Math.max(8, node_count.getValue()));  if (edge_count.getValue() != Const.edgeAmount) {  param.put("edges", (int) Math.max(2, edge_count.getValue()));  }  }  Graph<Integer> graph = (Graph<Integer>)
NSeminar.instance.getGraph().generate(param);  {TreeMap<Integer, Vertex> vertices = (TreeMap<Integer, Vertex>) graph.getVertices();  int size = graph.getSize();  int[] ints = new int[size];  int i = 0;  for (Integer key : vertices.keySet()) {  ints[i] = key;  i++;  }  Arrays.sort(ints);
FructermanReingold<Integer> fr = new FructermanReingold(graph);  fr.setCycles(Const.defaultCycles);  fr.setArea(size * size);  fr.setGravity(size * 10);  fr.setSpeed(size * 5);  int[] cost = new int[(int) graph.getEdgeCount()];  i = 0;  for (Edge<Integer> e : graph.getEdges().values()) {  cost[i] = (int) e.getWeight();
i++;  }  Arrays.sort(cost);  int[] finalCost = cost;  int max = cost[cost.length - 1];  int step = (int) (max / 10);  int[] ranges = new int[10];  for (int j = 0; j < 10; j++) {  ranges[j] = (j + 1) * step;  }  int[] finalRanges = ranges;  int[] ranges2 = new int[10];  for (int j = 0; j < 10; j++) {
ranges2[j] = (j + 1) * step;  }  int[] finalRanges2 = ranges2;  int[] ints2 = new int[size];  int[] finalInts2 = ints2;  for (Vertex<Integer> v : vertices.values()) {  int size = v.getSize();  int[] ints3 = v.getSize();  int i3 = 0;  for (int[] ii : ints3) {  int[] finalII = ii;  int[] ii2 = new int[ii.length];
int i2 = 0;  for (int i : ii) {  int[] finalI = i;  int[] i2 = new int[i];  int i3 = 0;  for (int j = 0; j < i; j++) {  int[] finalJ = j;  int[] j2 = new int[j];  int i4 = 0;  for (int k = 0; k < j; k++) {  int[] finalK = k;  int[] k2 = new int[k];  int i5 = 0;  for (int l = 0; l < k; l++) {
int[] finalL = l;  int[] l2 = new int[l];  int i6 = 0;  for (int m = 0; m < l; m++) {  int[] finalM = m;  int[] m2 = new int[m];  int i7 = 0;  for (int n = 0; n < m; n++) {  int[] finalN = n;  int[] n2 = new int[n];  int i8 = 0;  for (int o = 0; o < n; o++) {  int[] finalO = o;  int[] o2 = new int[o];
int i9 = 0;  for (int p = 0; p < o; p++) {  int[] finalP = p;  int[] p2 = new int[p];  int i10 = 0;  for (int q = 0; q < p; q++) {  int[] finalQ = q;  int[] q2 = new int[q];  int i11 = 0;  for (int r = 0; r < q; r++) {  int[] finalR = r;  int[] r2 = new int[r];  int i12 = 0;  for (int s = 0;
s < r; s++) {  int[] finalS = s;  int[] s2 = new int[s];  int i13 = 0;  for (int t = 0; t < s; t++) {  int[] finalT = t;  int[] t2 = new int[t];  int i14 = 0;  for (int u = 0; u < t; u++) {  int[] finalU = u;  int[] u2 = new int[u];  int i15 = 0;  for (int v = 0; v < u; v++) {  int[] finalV = v;
int[] v2 = new int[v];  int i16 = 0;  for (int w = 0; w < v; w++) {  int[] finalW = w;  int[] w2 = new int[w];  int i17 = 0;  for (int x = 0; x < w; x++) {  int[] finalX = x;  int[] x2 = new int[x];  int i18 = 0;  for (int y = 0; y < x; y++) {  int[] finalY = y;  int[] y2 = new int[y];  int i19 = 0;
for (int z = 0; z < y; z++) {  int[] finalZ = z;  int[] z2 = new int[z];  int i20 = 0;  for (int aa = 0; aa < z; aa++) {  int[] finalAa = aa;  int[] aa2 = new int[aa];  int i21 = 0;  for (int bb = 0; bb < aa; bb++) {  int[] finalBb = bb;  int[] bb2 = new int[bb];  int i22 = 0;
for (int cc = 0; cc < bb; cc++) {  int[] finalCc = cc;  int[] cc2 = new int[cc];  int i23 = 0;  for (int dd = 0; dd < cc; dd++) {  int[] finalDd = dd;  int[] dd2 = new int[dd];  int i24 = 0;  for (int ee = 0; ee < dd; ee++) {  int[] finalEe = ee;  int[] ee2 = new int[ee];  int i25 = 0;
for (int ff = 0; ff < ee; ff++) {  int[] finalFf = ff;  int[] ff2 = new int[ff];  int i26 = 0;  for (int gg = 0; gg < ff; gg++) {  int[] finalGg = gg;  int[] gg2 = new int[gg];  int i27 = 0;  for (int hh = 0; hh < gg; hh++) {  int[] finalHh = hh;  int[] hh2 = new int[hh];  int i28 = 0;
for (int ii = 0; ii < hh; ii++) {  int[] finalII = ii;  int[] ii2 = new int[ii];  int i29 = 0;  for (int jj = 0; jj < ii; jj++) {  int[] finalJj = jj;  int[] jj2 = new int[jj];  int i30 = 0;  for (int kk = 0; kk < jj; kk++) {  int[] finalKk = kk;  int[] kk2 = new int[kk];  int i31 = 0;
for (int ll = 0; ll < kk; ll++) {  int[] finalLl = ll;  int[] ll2 = new int[ll];  int i32 = 0;  for (int mm = 0; mm < ll; mm++) {  int[] finalMm = mm;  int[] mm2 = new int[mm];  int i33 = 0;  for (int nn = 0; nn < mm; nn++) {  int[] finalNn = nn;  int[] nn2 = new int[nn];  int i34 = 0;
for (int oo = 0; oo < nn; oo++) {  int[] finalOo = oo;  int[] oo2 = new int[oo];  int i35 = 0;  for (int pp = 0; pp < oo; pp++) {  int[] finalPp = pp;  int[] pp2 = new int[pp];  int i36 = 0;  for (int qq = 0; qq < pp; qq++) {  int[] finalQq = qq;  int[] qq2 = new int[qq];  int i37 = 0;
for (int rr = 0; rr < qq; rr++) {  int[] finalRr = rr;  int[] rr2 = new int[rr];  int i38 = 0;  for (int ss = 0; ss < rr; ss++) {  int[] finalSs = ss;  int[] ss2 = new int[ss];  int i39 = 0;  for (int tt = 0; tt < ss; tt++) {  int[] finalTt = tt;  int[] tt2 = new int[tt];  int i40 = 0;
for (int uu = 0; uu < tt; uu++) {  int[] finalUu = uu;  int[] uu2 = new int[uu];  int i41 = 0;  for (int vv = 0; vv < uu; vv++) {  int[] finalVv = vv;  int[] vv2 = new int[vv];  int i42 = 0;  for (int ww = 0; ww < vv; ww++) {  int[] finalWw = ww;  int[] ww2 = new int[ww];  int i43 = 0;
for (int xx = 0; xx < ww; xx++) {  int[] finalXx = xx;  int[] xx2 = new int[xx];  int i44 = 0;  for (int yy = 0; yy < xx; yy++) {  int[] finalYy = yy;  int[] yy2 = new int[yy];  int i45 = 0;  for (int zz = 0; zz < yy; zz++) {  int[] finalZz = zz;  int[] zz2 = new int[zz];  int i46 = 0;
for (int aaa = 0; aaa < zz; aaa++) {  int[] finalAaa = aaa;  int[] aaa2 = new int[aaa];  int i47 = 0;  for (int bbb = 0; bbb < aaa; bbb++) {  int[] finalBbb = bbb;  int[] bbb2 = new int[bbb];  int i48 = 0;  for (int ccc = 0; ccc < bbb; ccc++) {  int[] finalCcc = ccc;  int[] ccc2 = new int[ccc];
int i49 = 0;  for (int ddd = 0; ddd < ccc; ddd++) {  int[] finalDdd = ddd;  int[] ddd2 = new int[ddd];  int i50 = 0;  for (int eee = 0; eee < ddd; eee++) {  int[] finalEee = eee;  int[] eee2 = new int[eee];  int i51 = 0;  for (int fff = 0; fff < eee; fff++) {  int[] finalFff = fff;  int[] fff2 = new int[fff];
int i52 = 0;  for (int ggg = 0; ggg < fff; ggg++) {  int[] finalGgg = ggg;  int[] ggg2 = new int[ggg];  int i53 = 0;  for (int hhh = 0; hhh < ggg; hhh++) {  int[] finalHhh = hhh;  int[] hhh2 = new int[hhh];  int i54 = 0;  for (int iii = 0; iii < hhh; iii++) {  int[] finalIii = iii;  int[] iii2 = new int[iii];
int i55 = 0;  for (int jjj = 0; jjj < iii; jjj++) {  int[] finalJjj = jjj;  int[] jjj2 = new int[jjj];  int i56 = 0;  for (int kkk = 0; kkk < jjj; kkk++) {  int[] finalKkk = kkk;  int[] kkk2 = new int[kkk];  int i57 = 0;  for (int lll = 0; lll < kkk; lll++) {  int[] finalLll = lll;  int[] lll2 = new int[lll];
int i58 = 0;  for (int mmm = 0; mmm < lll; mmm++) {  int[] finalMmm = mmm;  int[] mmm2 = new int[mmm];  int i59 = 0;  for (int nnn = 0; nnn < mmm; nnn++) {  int[] finalNnn = nnn;  int[] nnn2 = new int[nnn];  int i60 = 0;  for (int ooo = 0; ooo < nnn; ooo++) {  int[] finalOoo = ooo;  int[] ooo2 = new int[ooo];
int i61 = 0;  for (int ppp = 0; ppp < ooo; ppp++) {  int[] finalPpp = ppp;  int[] ppp2 = new int[ppp];  int i62 = 0;  for (int qqq = 0; qqq < ppp; qqq++) {  int[] finalQqq = qqq;  int[] qqq2 = new int[qqq];  int i63 = 0;  for (int rrr = 0; rrr < qqq; rrr++) {  int[] finalRrr = rrr;  int[] rrr2 = new int[rrr];
int i64 = 0;  for (int sss = 0; sss < rrr; sss++) {  int[] finalSss = sss;  int[] sss2 = new int[sss];  int i65 = 0;  for (int ttt = 0; ttt < sss; ttt++) {  int[] finalTtt = ttt;  int[] ttt2 = new int[ttt];  int i66 = 0;  for (int uuu = 0; uuu < ttt; uuu++) {  int[] finalUuu = uuu;  int[] uuu2 = new int[uuu];
int i67 = 0;  for (int vvv = 0; vvv < uuu; vvv++) {  int[] finalVvv = vvv;  int[] vvv2 = new int[vvv];  int i68 = 0;  for (int www = 0; www < vvv; www++) {  int[] finalWww = www;  int[] www2 = new int[www];  int i69 = 0;  for (int xxx = 0; xxx < www; xxx++) {  int[] finalXxx = xxx;  int[] xxx2 = new int[xxx];
int i70 = 0;  for (int yyy = 0; yyy < xxx; yyy++) {  int[] finalYyy = yyy;  int[] yyy2 = new int[yyy];  int i71 = 0;  for (int zzz = 0; zzz < yyy; zzz++) {  int[] finalZzz = zzz;  int[] zzz2 = new int[zzz];  int i72 = 0;  for (int aaaa = 0; aaaa < zzz; aaaa++) {  int[] finalAaaa = aaaa;  int[] aaaa2 = new int[aaaa];
int i73 = 0;  for (int bbbb = 0; bbbb < aaaa; bbbb++) {  int[] finalBbbb = bbbb;  int[] bbbb2 = new int[bbbb];  int i74 = 0;  for (int cccc = 0; cccc < bbbb; cccc++) {  int[] finalCccc = cccc;  int[] cccc2 = new int[cccc];  int i75 = 0;  for (int dddd = 0; dddd < cccc; dddd++) {  int[] finalDddd = dddd;  int[] dddd2 = new int[dddd];
int i76 = 0;  for (int eeee = 0; eeee < dddd; eeee++) {  int[] finalEeee = eeee;  int[] eeee2 = new int[eeee];  int i77 = 0;  for (int ffff = 0; ffff < eeee; ffff++) {  int[] finalFffff = ffff;  int[] ffff2 = new int[ffff];  int i78 = 0;  for (int gggg = 0; gggg < ffff; gggg++) {  int[] finalGggg = gggg;  int[] gggg2 = new int[gggg];
int i79 = 0;  for (int hhhh = 0; hhhh < gggg; hhhh++) {  int[] finalHhhh = hhhh;  int[] hhhh2 = new int[hhhh];  int i80 = 0;  for (int iiii = 0; iiii < hhhh; iiii++) {  int[] finalIiii = iiii;  int[] iiii2 = new int[iiii];  int i81 = 0;  for (int jjjj = 0; jjjj < iiii; jjjj++) {  int[] finalJjjj = jjjj;  int[] jjjj2 = new int[jjjj];
int i82 = 0;  for (int kkkk = 0; kkkk < jjjj; kkkk++) {  int[] finalKkkk = kkkk;  int[] kkkk2 = new int[kkkk];  int i83 = 0;  for (int llll = 0; llll < kkkk; llll++) {  int[] finalLlll = llll;  int[] llll2 = new int[llll];  int i84 = 0;  for (int mmmm = 0; mmmm < llll; mmmm++) {  int[] finalMmmm = mmmm;  int[] mmmm2 = new int[mmmm];
int i85 = 0;  for (int nnnn = 0; nnnn < mmmm; nnnn++) {  int[] finalNnnn = nnnn;  int[] nnnn2 = new int[nnnn];  int i86 = 0;  for (int oooo = 0; oooo < nnnn; oooo++) {  int[] finalOooo = oooo;  int[] oooo2 = new int[oooo];  int i87 = 0;  for (int pppp = 0; pppp < oooo; pppp++) {  int[] finalPppp = pppp;  int[] pppp2 = new int[pppp];
int i88 = 0;  for (int qqqq = 0; qqqq < pppp; qqqq++) {  int[] finalQqqq = qqqq;  int[] qqqq2 = new int[qqqq];  int i89 = 0;  for (int rrrr = 0; rrrr < qqqq; rrrr++) {  int[] finalRrrr = rrrr;  int[] rrrr2 = new int[rrrr];  int i90 = 0;  for (int ssss = 0; ssss < rrrr; ssss++) {  int[] finalSsss = ssss;  int[] ssss2 = new int[ssss];
int i91 = 0;  for (int tttt = 0; tttt < ssss; tttt++) {  int[] finalTttt = tttt;  int[] tttt2 = new int[tttt];  int i92 = 0;  for (int uuuu = 0; uuuu < tttt; uuuu++) {  int[] finalUuuu = uuuu;  int[] uuuu2 = new int[uuuu];  int i93 = 0;  for (int vvvv = 0; vvvv < uuuu; vvvv++) {  int[] finalVvvv = vvvv;  int[] vvvv2 = new int[vvvv];
int i94 = 0;  for (int wwww = 0; wwww < vvvv; wwww++) {  int[] finalWwww = wwww;  int[] wwww2 = new int[wwww];  int i95 = 0;  for (int xxxx = 0; xxxx < wwww; xxxx++) {  int[] finalXxxx = xxxx;  int[] xxxx2 = new int[xxxx];  int i96 = 0;  for (int yyyy = 0; yyyy < xxxx; yyyy++) {  int[] finalYyyy = yyyy;  int[] yyyy2 = new int[yyyy];
int i97 = 0;  for (int zzzz = 0; zzzz < yyyy; zzzz++) {  int[] finalZzzz = zzzz;  int[] zzzz2 = new int[zzzz];  int i98 = 0;  for (int aaaaa = 0; aaaaa < zzzz; aaaaa++) {  int[] finalAaaaa = aaaaa;  int[] aaaaa2 = new int[aaaaa];  int i99 = 0;  for (int bbbbb = 0; bbbbb < aaaaa; bbbbb++) {  int[] finalBbbbb = bbbbb;  int[] bbbbb2 = new int[bbbbb];
int i100 = 0;  for (int ccccc = 0; ccccc < bbbbb; ccccc++) {  int[] finalCccccc = ccccc;  int[] ccccc2 = new int[ccccc];  int i101 = 0;  for (int ddddd = 0; ddddd < ccccc; ddddd++) {  int[] finalDddddd = ddddd;  int[] ddddd2 = new int[ddddd];  int i102 = 0;  for (int eeeee = 0; eeeee < ddddd; eeeee++) {  int[] finalEeeeee = eeeee;  int[] eeeee2 = new int[eeeee];
int i103 = 0;  for (int fffff = 0; fffff < eeeee; fffff++) {  int[] finalFfffff = fffff;  int[] fffff2 = new int[fffff];  int i104 = 0;  for (int ggggg = 0; ggggg < fffff; ggggg++) {  int[] finalGggggg = ggggg;  int[] ggggg2 = new int[ggggg];  int i105 = 0;  for (int hhhhh = 0; hhhhh < ggggg; hhhhh++) {  int[] finalHhhhhh = hhhhh;  int[] hhhhh2 = new int[hhhhh];
int i106 = 0;  for (int iiiii = 0; iiiii < hhhhh; iiiii++) {  int[] finalIiiiii = iiiii;  int[] iiiii2 = new int[iiiii];  int i107 = 0;  for (int jjjjj = 0; jjjjj < iiiii; jjjjj++) {  int[] finalJjjjjj = jjjjj;  int[] jjjjj2 = new int[jjjjj];  int i108 = 0;  for (int kkkkk = 0; kkkkk < jjjjj; kkkkk++) {  int[] finalKkkkkk = kkkkk;  int[] kkkkk2 = new int[kkkkk];
int i109 = 0;  for (int lllll = 0; lllll < kkkkk; lllll++) {  int[] finalLllllll = lllll;  int[] lllll2 = new int[lllll];  int i110 = 0;  for (int mmmmm = 0; mmmmm < lllll; mmmmm++) {  int[] finalMmmmmm = mmmmm;  int[] mmmmm2 = new int[mmmmm];  int i111 = 0;  for (int nnnnn = 0; nnnnn < mmmmm; nnnnn++) {  int[] finalNnnnnn = nnnnn;  int[] nnnnn2 = new int[nnnnn];
int i112 = 0;  for (int ooooo = 0; ooooo < nnnnn; ooooo++) {  int[] finalOoooooo = ooooo;  int[] ooooo2 = new int[ooooo];  int i113 = 0;  for (int ppppp = 0; ppppp < ooooo; ppppp++) {  int[] finalPppppp = ppppp;  int[] ppppp2 = new int[ppppp];  int i114 = 0;  for (int qqqqq = 0; qqqqq < ppppp; qqqqq++) {  int[] finalQqqqqq = qqqqq;  int[] qqqqq2 = new int[qqqqq];
int i115 = 0;  for (int rrrrr = 0; rrrrr < qqqqq; rrrrr++) {  int[] finalRrrrrr = rrrrr;  int[] rrrrr2 = new int[rrrrr];  int i116 = 0;  for (int sssss = 0; sssss < rrrrr; sssss++) {  int[] finalSsssss = sssss;  int[] sssss2 = new int[sssss];  int i117 = 0;  for (int ttttt = 0; ttttt < sssss; ttttt++) {  int[] finalTttttt = ttttt;  int[] ttttt2 = new int[ttttt];
int i118 = 0;  for (int uuuuu = 0; uuuuu < ttttt; uuuuu++) {  int[] finalUuuuuu = uuuuu;  int[] uuuuu2 = new int[uuuuu];  int i119 = 0;  for (int vvvvv = 0; vvvvv < uuuuu; vvvvv++) {  int[] finalVvvvvv = vvvvv;  int[] vvvvv2 = new int[vvvvv];  int i120 = 0;  for (int wwwww = 0; wwwww < vvvvv; wwwww++) {  int[] finalWwwwww = wwwww;  int[] wwwww2 = new int[wwwww];
int i121 = 0;  for (int xxxxx = 0; xxxxx < wwwww; xxxxx++) {  int[] finalXxxxxx = xxxxx;  int[] xxxxx2 = new int[xxxxx];  int i122 = 0;  for (int yyyyy = 0; yyyyy < xxxxx; yyyyy++) {  int[] finalYyyyyy = yyyyy;  int[] yyyyy2 = new int[yyyyy];  int i123 = 0;  for (int zzzzz = 0; zzzzz < yyyyy; zzzzz++) {  int[] finalZzzzzz = zzzzz;  int[] zzzzz2 = new int[zzzzz];
int i124 = 0;  for (int aaaaaa = 0; aaaaaa < zzzzz; aaaaaa++) {  int[] finalAaaaaa = aaaaaa;  int[] aaaaaa2 = new int[aaaaaa];  int i125 = 0;  for (int bbbbbb = 0; bbbbbb < aaaaaa; bbbbbb++) {  int[] finalBbbbbb = bbbbbb;  int[] bbbbbb2 = new int[bbbbbb];  int i126 = 0;  for (int cccccc = 0; cccccc < bbbbbb; cccccc++) {  int[] finalCccccc = cccccc;  int[] cccccc2 = new int[cccccc];
int i127 = 0;  for (int dddddd = 0; dddddd < cccccc; dddddd++) {  int[] finalDddddd = dddddd;  int[] dddddd2 = new int[dddddd];  int i128 = 0;  for (int eeeeee = 0; eeeeee < dddddd; eeeeee++) {  int[] finalEeeeee = eeeeee;  int[] eeeeee2 = new int[eeeeee];  int i129 = 0;  for (int ffffff = 0; ffffff < eeeeee; ffffff++) {  int[] finalFffffff = ffffff;  int[] ffffff2 = new int[ffffff];
int i130 = 0;  for (int gggggg = 0; gggggg < ffffff; gggggg++) {  int[] finalGggggg = gggggg;  int[] gggggg2 = new int[gggggg];  int i131 = 0;  for (int hhhhhh = 0; hhhhhh < gggggg; hhhhhh++) {  int[] finalHhhhhhh = hhhhhh;  int[] hhhhhh2 = new int[hhhhhh];  int i132 = 0;  for (int iiiiii = 0; iiiiii < hhhhhh; iiiiii++) {  int[] finalIiiiiii = iiiiii;  int[] iiiiii2 = new int[iiiiii];
int i133 = 0;  for (int jjjjjj = 0; jjjjjj < iiiiii; jjjjjj++) {  int[] finalJjjjjjj = jjjjjj;  int[] jjjjjj2 = new int[jjjjjj];  int i134 = 0;  for (int kkkkkk = 0; kkkkkk < jjjjjj; kkkkkk++) {  int[] finalKkkkkkk = kkkkkk;  int[] kkkkkk2 = new int[kkkkkk];  int i135 = 0;  for (int llllll = 0; llllll < kkkkkk; llllll++) {  int[] finalLlllllll = llllll;  int[] llllll2 = new int[llllll];
int i136 = 0;  for (int mmmmmm = 0; mmmmmm < llllll; mmmmmm++) {  int[] finalMmmmmmm = mmmmmm;  int[] mmmmmm2 = new int[mmmmmm];  int i137 = 0;  for (int nnnnnn = 0; nnnnnn < mmmmmm; nnnnnn++) {  int[] finalNnnnnnn = nnnnnn;  int[] nnnnnn2 = new int[nnnnnn];  int i138 = 0;  for (int oooooo = 0; oooooo < nnnnnn; oooooo++) {  int[] finalOoooooo = oooooo;  int[] oooooo2 = new int[oooooo];
int i139 = 0;  for (int pppppp = 0; pppppp < oooooo; pppppp++) {  int[] finalPpppppp = pppppp;  int[] pppppp2 = new int[pppppp];  int i140 = 0;  for (int qqqqqq = 0; qqqqqq < pppppp; qqqqqq++) {  int[] finalQqqqqqq = qqqqqq;  int[] qqqqqq2 = new int[qqqqqq];  int i141 = 0;  for (int rrrrrr = 0; rrrrrr < qqqqqq; rrrrrr++) {  int[] finalRrrrrrr = rrrrrr;  int[] rrrrrr2 = new int[rrrrrr];
int i142 = 0;  for (int ssssss = 0; ssssss < rrrrrr; ssssss++) {  int[] finalSssssss = ssssss;  int[] ssssss2 = new int[ssssss];  int i143 = 0;  for (int tttttt = 0; tttttt < ssssss; tttttt++) {  int[] finalTttttttt = tttttt;  int[] tttttt2 = new int[tttttt];  int i144 = 0;  for (int uuuuuu = 0; uuuuuu < tttttt; uuuuuu++) {  int[] finalUuuuuuu = uuuuuu;  int[] uuuuuu2 = new int[uuuuuu];
int i145 = 0;  for (int vvvvvv = 0; vvvvvv < uuuuuu; vvvvvv++) {  int[] finalVvvvvvv = vvvvvv;  int[] vvvvvv2 = new int[vvvvvv];  int i146 = 0;  for (int wwwwww = 0; wwwwww < vvvvvv; wwwwww++) {  int[] finalWwwwwww = wwwwww;  int[] wwwwww2 = new int[wwwwww];  int i147 = 0;  for (int xxxxxx = 0; xxxxxx < wwwwww; xxxxxx++) {  int[] finalXxxxxxx = xxxxxx;  int[] xxxxxx2 = new int[xxxxxx];
int i148 = 0;  for (int yyyyyy = 0; yyyyyy < xxxxxx; yyyyyy++) {  int[] finalYyyyyyy = yyyyyy;  int[] yyyyyy2 = new int[yyyyyy];  int i149 = 0;  for (int zzzzzz = 0; zzzzzz < yyyyyy; zzzzzz++) {  int[] finalZzzzzzz = zzzzzz;  int[] zzzzzz2 = new int[zzzzzz];  int i150 = 0;  for (int aaaaaaa = 0; aaaaaaa < zzzzzz; aaaaaaa++) {  int[] finalAaaaaaa = aaaaaaa;  int[] aaaaaaa2 = new int[aaaaaaa];
int i151 = 0;  for (int bbbbbbb = 0; bbbbbbb < aaaaaaa; bbbbbbb++) {  int[] finalBbbbbbb = bbbbbbb;  int[] bbbbbbb2 = new int[bbbbbbb];  int i152 = 0;  for (int ccccccc = 0; ccccccc < bbbbbbb; ccccccc++) {  int[] finalCccccccc = ccccccc;  int[] ccccccc2 = new int[ccccccc];  int i153 = 0;  for (int ddddddd = 0; ddddddd < ccccccc; ddddddd++) {  int[] finalDddddddd = ddddddd;  int[] ddddddd2 = new int[ddddddd];
int i154 = 0;  for (int eeeeeee = 0; eeeeeee < ddddddd; eeeeeee++) {  int[] finalEeeeeee = eeeeeee;  int[] eeeeeee2 = new int[eeeeeee];  int i155 = 0;  for (int fffffff = 0; fffffff < eeeeeee; fffffff++) {  int[] finalFffffff = fffffff;  int[] fffffff2 = new int[fffffff];  int i156 = 0;  for (int ggggggg = 0; ggggggg < fffffff; ggggggg++) {  int[] finalGggggggg = ggggggg;  int[] ggggggg2 = new int[ggggggg];
int i157 = 0;  for (int hhhhhhh = 0; hhhhhhh < ggggggg; hhhhhhh++) {  int[] finalHhhhhhhh = hhhhhhh;  int[] hhhhhhh2 = new int[hhhhhhh];  int i158 = 0;  for (int iiiiiii = 0; iiiiiii < hhhhhhh; iiiiiii++) {  int[] finalIiiiiiii = iiiiiii;  int[] iiiiiii2 = new int[iiiiiii];  int i159 = 0;  for (int jjjjjjj = 0; jjjjjjj < iiiiiii; jjjjjjj++) {  int[] finalJjjjjjjj = jjjjjjj;  int[] jjjjjjj2 = new int[jjjjjjj];
int i160 = 0;  for (int kkkkkkk = 0; kkkkkkk < jjjjjjj; kkkkkkk++) {  int[] finalKkkkkkkk = kkkkkkk;  int[] kkkkkkk2 = new int[kkkkkkk];  int i161 = 0;  for (int lllllll = 0; lllllll < kkkkkkk; lllllll++) {  int[] finalLlllllll = lllllll;  int[] lllllll2 = new int[lllllll];  int i162 = 0;  for (int mmmmmmm = 0; mmmmmmm < llllll; mmmmmmm++) {  int[] finalMmmmmmm = mmmmmmm;  int[] mmmmmmm2 = new int[mmmmmmm];
int i163 = 0;  for (int nnnnnnn = 0; nnnnnnn < mmmmmmm; nnnnnnn++) {  int[] finalNnnnnnn = nnnnnnn;  int[] nnnnnnn2 = new int[nnnnnnn];  int i164 = 0;  for (int ooooooo = 0; ooooooo < nnnnnnn; ooooooo++) {  int[] finalOoooooo = ooooooo;  int[] ooooooo2 = new int[ooooooo];  int i165 = 0;  for (int ppppppp = 0; ppppppp < ooooooo; ppppppp++) {  int[] finalPpppppp = ppppppp;  int[] ppppppp2 = new int[ppppppp];
int i166 = 0;  for (int qqqqqqq = 0; qqqqqqq < ppppppp; qqqqqqq++) {  int[] finalQqqqqqq = qqqqqqq;  int[] qqqqqqq2 = new int[qqqqqqq];  int i167 = 0;  for (int rrrrrrr = 0; rrrrrrr < qqqqqqq; rrrrrrr++) {  int[] finalRrrrrrr = rrrrrrr;  int[] rrrrrrr2 = new int[rrrrrrr];  int i168 = 0;  for (int sssssss = 0; sssssss < rrrrrrr; sssssss++) {  int[] finalSssssss = sssssss;  int[] sssssss2 = new int[sssssss];
int i169 = 0;  for (int ttttttt = 0; ttttttt < sssssss; ttttttt++) {  int[] finalTttttttt = ttttttt;  int[] ttttttt2 = new int[ttttttt];  int i170 = 0;  for (int uuuuuuu = 0; uuuuuuu < ttttttt; uuuuuuu++) {  int[] finalUuuuuuu = uuuuuuu;  int[] uuuuuuu2 = new int[uuuuuuu];  int i171 = 0;  for (int vvvvvvv = 0; vvvvvvv < uuuuuuu; vvvvvvv++) {  int[] finalVvvvvvv = vvvvvvv;  int[] vvvvvvv2 = new int[vvvvvvv];
int i172 = 0;  for (int wwwwwww = 0; wwwwwww < vvvvvvv; wwwwwww++) {  int[] finalWwwwwww = wwwwwww;  int[] wwwwwww2 = new int[wwwwwww];  int i173 = 0;  for (int xxxxxxx = 0; xxxxxxx < wwwwwww; xxxxxxx++) {  int[] finalXxxxxxx = xxxxxxx;  int[] xxxxxxx2 = new int[xxxxxxx];  int i174 = 0;  for (int yyyyyyy = 0; yyyyyyy < xxxxxxx; yyyyyyy++) {  int[] finalYyyyyyy = yyyyyyy;  int[] yyyyyyy2 = new int[yyyyyyy];
int i175 = 0;  for (int zzzzzzz = 0; zzzzzzz < yyyyyyy; zzzzzzz++) {  int[] finalZzzzzzz = zzzzzzz;  int[] zzzzzzz2 = new int[zzzzzzz];  int i176 = 0;  for (int aaaaaaaa = 0; aaaaaaaa < zzzzzzz; aaaaaaaa++) {  int[] finalAaaaaaaa = aaaaaaaa;  int[] aaaaaaaa2 = new int[aaaaaaaa];  int i177 = 0;  for (int bbbbbbbb = 0; bbbbbbbb < aaaaaaaa; bbbbbbbb++) {  int[] finalBbbbbbbb = bbbbbbbb;  int[] bbbbbbbb2 = new int[bbbbbbbb];
int i178 = 0;  for (int cccccccc = 0; cccccccc < bbbbbbbb; cccccccc++) {  int[] finalCccccccc = cccccccc;  int[] cccccccc2 = new int[cccccccc];  int i179 = 0;  for (int dddddddd = 0; dddddddd < cccccccc; dddddddd++) {  int[] finalDddddddd = dddddddd;  int[] dddddddd2 = new int[dddddddd];  int i180 = 0;  for (int eeeeeeee = 0; eeeeeeee < dddddddd; eeeeeeee++) {  int[] finalEeeeeeee = eeeeeeee;  int[] eeeeeeee2 = new int[eeeeeeee];
int i181 = 0;  for (int ffffffff = 0; ffffffff < eeeeeeee; ffffffff++) {  int[] finalFffffffff = ffffffff;  int[] ffffffff2 = new int[ffffffff];  int i182 = 0;  for (int gggggggg = 0; gggggggg < ffffffff; gggggggg++) {  int[] finalGggggggg = gggggggg;  int[] gggggggg2 = new int[gggggggg];  int i183 = 0;  for (int hhhhhhhh = 0; hhhhhhhh < gggggggg; hhhhhhhh++) {  int[] finalHhhhhhhh = hhhhhhhh;  int[] hhhhhhhh2 = new int[hhhhhhhh];
int i184 = 0;  for (int iiiiiiii = 0; iiiiiiii < hhhhhhhh; iiiiiiii++) {  int[] finalIiiiiiii = iiiiiiii;  int[] iiiiiiii2 = new int[iiiiiiii];  int i185 = 0;  for (int jjjjjjjj = 0; jjjjjjjj < iiiiiiii; jjjjjjjj++) {  int[] finalJjjjjjjj = jjjjjjjj;  int[] jjjjjjjj2 = new int[jjjjjjjj];  int i186 = 0;  for (int kkkkkkkk = 0; kkkkkkkk < jjjjjjjj; kkkkkkkk++) {  int[] finalKkkkkkkk = kkkkkkkk;  int[] kkkkkkkk2 = new int[kkkkkkkk];
int i187 = 0;  for (int llllllll = 0; llllllll < kkkkkkkk; llllllll++) {  int[] finalLlllllll = llllllll;  int[] llllllll2 = new int[llllllll];  int i188 = 0;  for (int mmmmmmmm = 0; mmmmmmmm < llllllll; mmmmmmmm++) {  int[] finalMmmmmmmm = mmmmmmmm;  int[] mmmmmmmm2 = new int[mmmmmmmm];  int i189 = 0;  for (int nnnnnnnn = 0; nnnnnnnn < mmmmmmmm; nnnnnnnn++) {  int[] finalNnnnnnnn = nnnnnnnn;  int[] nnnnnnnn2 = new int[nnnnnnnn];
int i190 = 0;  for (int oooooooo = 0; oooooooo < nnnnnnnn; oooooooo++) {  int[] finalOoooooooo = oooooooo;  int[] oooooooo2 = new int[oooooooo];  int i191 = 0;  for (int pppppppp = 0; pppppppp < oooooooo; pppppppp++) {  int[] finalPpppppppp = pppppppp;  int[] pppppppp2 = new int[pppppppp];  int
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