Driver Class SA int rect1X, rect1Y, rect2X, rect2Y, rect3X, rect3Y int rect4X, rect4Y, rect5X, rect5Y, rect6X, rect6Y int recW, recH; color rectColor, rect2Color, rect3Color, fillcolor; boolean Over1, Over2, Over3, Over4, Over5; boolean Over6, Over7, Over8; int state; BubbleSortLarge bubL; SelectionSortLarge selL; InsertionSortLarge insL; InsertionSortSmall insS; SelectionSortSmall selS; BubbleSortSmall bubS; BogoSortSmall bogS; BogoSortLarge bogL; HeapsortSmall heaS: HeapSortLarge heaL; void setup(); void draw(); void makeText(String, int, int, int); void update(); void mouseClicked(); boolean overRect(int,int); void keyPressed();

theSort **HeapSortSmall** int [] arr; ArrayList<int[]> order; int [] arr; boolean nyoom; float levelX, levelY; ArrayList<Integer> sorted; int arrSize, boxWidth, boxHeight, rootY, rootX, i, counter boolean filling, odd; void theSort(int[]); theSort arr1; void heapSortV(); void HeapSortSmall(); int maxChildPos(int[], int, int); int log(int, int) int[] dupe(int[]) void drawHSS(); void swap(int[], int, int) void display(int[]) **BogoSortSmall** InsertionSortSmall int [] arr; float boxWidth, boxHeight; int [] arr; int firstBox, secondBox, arrSize, a, b, partition, i, old float boxWidth, boxHeight; boolean swapping int firstBox, secondBox, arrSize, i, maxPos, pass; void InsertionSortSmall(); void BogoSortSmall(); void drawIS(); void drawBGS(); bolean sorted(int[]) **BubbleSortSmall SelectionSortSmall** int [] arr; int [] arr; float boxWidth, boxHeight; float boxWidth, boxHeight; int firstBox, secondBox, arrSize, a, b, partition, i, old int firstBox, secondBox, arrSize, a, b, partition, i, old

node

float ex, why;

void node

int, float,

boolean)

(float, float,

For Small Scale Visualization

For Large Scale Visualization

rArrIS

ArrayList<Integer> count ArrayList<Rectangles[]> order;

Rectangles[] rawr;

Sorta Awesome

David Frid, Karina Ionkina, Mark Shafran

APCS2 pd05

HW48 -- On Target

2017-06-07

Sorta Awesome

UML Diagram

int[] arr;

rArrIS(Rectangles[]);

Rectangles[] dupe(Rectangles[]);

void InsertionSortV()

void drawIL(int)

void swap(Rectangles[], int, int)

InsertionSortLarge

int counter; rArrIS rects:

int[] arr

InsertionSortLarge(); void drawIL();

void setArr();

BogoSortLarge

int counter;

ArrayList<Integer> arr

void BogoSortLarge();

void drawBGL();

void setArr();

boolean notSorted (ArrayList< Integer>);

Rectangles

float x, y, w, h;

color c;

Rectangles(float,float,float,float,color); void draw(int,int,boolean)

float getHeight();

void setHeight(float);

Rectangles dupe();

SelectionSortLarge

int counter;

rArrSS rects;

int[] arr

SelectionSortLarge(); void drawSL(); void setArr();

rArrSS

ArrayList<Integer> count

ArrayList<Rectangles[]> order;

Rectangles[] rawr;

int[] arr;

rArrIS(Rectangles[]);

Rectangles[] dupe(Rectangles[]);

void SelectionSortV()

void drawSL(int)

void swap(Rectangles[], int, int)

BubbleSortLarge

int counter; rArrBS rects:

int[] arr

boolean swapping, last

void SelectionSortSmall();

void drawSS();

BubbleSortLarge(); void drawBL();

void setArr();

rArrBS

boolean swapping, last

void BubbleSortSmall();

void drawBS();

ArrayList<Integer> count

ArrayList<Rectangles[]> order;

Rectangles[] rawr;

int[] arr;

rArrBS(Rectangles[]);

Rectangles[] dupe(Rectangles[]);

void BubbleSortV()

void drawBL(int)

void swap(Rectangles[], int, int)

HeapSortLarge

int counter;

rArrHS rects;

int[] arr

HeapSortLarge(); void drawHS();

void setArr();

rArrHS

ArrayList<Integer> count

ArrayList<Rectangles[]> order;

Rectangles[] rawr;

int[] arr;

rArrHS(Rectangles[]);

Rectangles[] dupe(Rectangles[]);

void heapSortV()

void drawH(int)

void swap(Rectangles[], int, int) void setArr();

int maxChildPos (Rectangles[], int, int)