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CS2050 Homework

Chapters 1.1, 1.2, 1.3, and 1.4

September 28, 2016

Homework for Chapters 2

Chapter 2

2.1.1

i j min N a[j] a[min] a[i] 0 1 2 3 4 5 6 7 8 9 10 11

E A S Y Q U E S T I O N

0 1 0 12 A E

1

2 1 S A

3 1 Y A

4 1 Q A

5 1 U A

6 1 E A

7 1 S A

8 1 T A

9 1 I A

10 1 O A

11 1 N A

12 A/E E/A A E S Y Q U E S T I O N

1 2 1 S E

3 1 Y E

4 1 Q E

5 1 U E

6 1 E E

7 1 S E

8 1 T E

9 1 I E

10 1 O E

11 1 N E

12 1 E/E E/E A E S Y Q U E S T I O N

2 3 2 Y S

4 2 Q S

5 4 U Q

6 4 E Q

7 6 S E

8 6 T E

9 6 I E

10 6 O E

11 6 N E

12 A E E Y Q U S S T I O N

3 4 9 Q I A E E I Q U S S T Y O N

4 11 11 N N A E E I N U S S T Y O Q

5 10 10 O A E E I N O S S T Y U Q

6 11 11 Q A E E I N O Q S T Y U S

7 11 7 S A E E I N O Q S T Y U S

8 9 11 S A E E I N O Q S S Y U T

9 10 11 Y A E E I N O Q S S T U Y

10 11 10 U A E E I N O Q S S T U Y

11 12

2.1.5 An array of N items where each array entry is identical to every other array entry.

2.1.9

i j h EASYSHELLSORTQUESTION

16 16 13 E A E S S H E L L S O R T Q U S Y T I O N

20 12 4 E A E L L H E O N Q I R S S O S T T U S Y

19 17 1 A E E E H I L L N O O Q R S S S S T T U Y

2.1.12

File is Shell.java

Results:

run:

Compares = 377

Percentage of Compares for 100 Elements is 3.77

Compares = 9221

Percentage of Compares for 1000 Elements is 9.22

Compares = 168369

Percentage of Compares for 10000 Elements is 16.84

BUILD SUCCESSFUL (total time: 0 seconds)