

Software Technology 1: Part C – Advanced Swing Form

Assignment Documentation

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Form

The screenshot shows a Java Swing window titled "Part C" with a yellow title bar. Inside the window, there is a group box on the left containing three radio buttons: "Add" (selected), "Subtract", and "Interleave". To the right of the radio buttons is a list box containing the numbers 10, 20, 30, 50, 100, and 200. Below the list box is a text field containing the number "10". To the right of the list box and text field is a button labeled "Do it!". On the far right of the window is a large, empty rectangular area for the output.

Add

Number + Number

The screenshot shows the same "Part C" Swing window after the "Add" operation. The "Add" radio button is now selected with a black dot. The list box still contains the same numbers, but the number "10" is now highlighted in blue. The text field below the list box now contains the number "200". The "Do it!" button is now highlighted with a blue dashed border. The large rectangular area on the right now displays the calculation "10 + 200 = 210".

String + Number

☒ Add
☐ Subtract
☐ Interleave

50
100
200
300
500
BRAD

200

Do it!

10 + 200 = 210
BRAD + 200 = BRAD200

Number + String

☒ Add
☐ Subtract
☐ Interleave

10
20
30
50
100
200

JANET

Do it!

10 + 200 = 210
BRAD + 200 = BRAD200
10 + JANET = 10JANET

String + String

☒ Add
☐ Subtract
☐ Interleave

50
100
200
300
500
BRAD

JANET

Do it!

10 + 200 = 210
BRAD + 200 = BRAD200
10 + JANET = 10JANET
BRAD + JANET = BRADJANET

Subtract

Number + Number

☐ Add

☒ Subtract

☐ Interleave

10

20

30

50

100

200

200

Do it!

10 + 200 = 210

BRAD + 200 = BRAD200

10 + JANET = 10JANET

BRAD + JANET = BRADJANET

200 - 10 = 190

☐ Add

☒ Subtract

☐ Interleave

10

20

30

50

100

200

10

Do it!

10 + 200 = 210

BRAD + 200 = BRAD200

10 + JANET = 10JANET

BRAD + JANET = BRADJANET

200 - 10 = 190

10 - 200 = -190

String + Number

☐ Add

☒ Subtract

☐ Interleave

10

20

30

50

100

200

JANET

Do it!

10 + 200 = 210

BRAD + 200 = BRAD200

10 + JANET = 10JANET

BRAD + JANET = BRADJANET

200 - 10 = 190

10 - 200 = -190

Cannot subtract JANET from

Number + String

☐ Add

☒ Subtract

☐ Interleave

50

100

200

300

500

BRAD

200

Do it!

10 + 200 = 210

BRAD + 200 = BRAD200

10 + JANET = 10JANET

BRAD + JANET = BRADJANET

200 - 10 = 190

10 - 200 = -190

Cannot subtract JANET from 10

Cannot subtract 200 from 10

String + String

☐ Add

☒ Subtract

☐ Interleave

50

100

200

300

500

BRAD

JANET

Do it!

10 + 200 = 210

BRAD + 200 = BRAD200

10 + JANET = 10JANET

BRAD + JANET = BRADJANET

200 - 10 = 190

10 - 200 = -190

Cannot subtract JANET from 10

Cannot subtract 200 from 10

Cannot subtract JANET from 200

Interleave

Number + Number

Part C

☐ Add
☐ Subtract
☒ Interleave

10
20
30
50
100
200

200

Do it!

10 + 200 = 210
BRAD + 200 = BRAD200
10 + JANET = 10JANET
BRAD + JANET = BRADJANET
200 - 10 = 190
10 - 200 = -190
Cannot subtract JANET from 10
Cannot subtract 200 from 10
Cannot subtract JANET from 200
12000

Part C

☐ Add
☐ Subtract
☒ Interleave

10
20
30
50
100
200

10

Do it!

10 + JANET = 10JANET
BRAD + JANET = BRADJANET
200 - 10 = 190
10 - 200 = -190
Cannot subtract JANET from 10
Cannot subtract 200 from 10
Cannot subtract JANET from 200
12000
21000

String + Number

Part C

☐ Add
☐ Subtract
☒ Interleave

50
100
200
300
500
BRAD

10

Do it!

10 + JANET = 10JANET
BRAD + JANET = BRADJANET
200 - 10 = 190
10 - 200 = -190
Cannot subtract JANET from 10
Cannot subtract 200 from 10
Cannot subtract JANET from 200
12000
21000
B1ROAD

Number + String

☐ Add

☐ Subtract

☒ Interleave

10

20

30

50

100

200

JANET

Do it!

200 - 10 = 190

10 - 200 = -190

Cannot subtract JANET :

Cannot subtract 200 from

Cannot subtract JANET :

12000

21000

B1ROAD

1J0ANET

String + String

☐ Add

☐ Subtract

☒ Interleave

50

100

200

300

500

BRAD

JANET

Do it!

200 - 10 = 190

10 - 200 = -190

Cannot subtract JANET :

Cannot subtract 200 from

Cannot subtract JANET :

12000

21000

B1ROAD

1J0ANET

BJRAANDET