



(a) questionnaire source code

Questionnaire

1: String #f

2: String #f

3= \$1++\$2: #f

4: Number #f

5: Number #f

6= \$4 \* \$5: #f

☐ 7: Boolean

☐ 8: Boolean

☐ 9= \$7 & \$8:

11 again: Number #f

13: String #f

☐ 12 again: Boolean

(b) original GUI, without user input (all values undefined), first and nested group of second group not shown (question 9 & 11 are undefined), the second group is always shown (constant *true*)

Questionnaire

1: String Hello

2: String World

3= \$1++\$2: Hello World

4: Number 23

5: Number 12

6= \$4 \* \$5: 276

☒ 7: Boolean

☒ 8: Boolean

☒ 9= \$7 & \$8:

10: Number #f

11= \$6 - \$10: #f

13: String #f

☐ 12 again: Boolean

(c) after answering questions 1—8, first group shown (computed question 9 evaluates to *true*) shadowing the original question 11 with its computed version

Questionnaire

1: String Hello

2: String World

3= \$1++\$2: Hello World

4: Number 23

5: Number 12

6= \$4 \* \$5: 276

☒ 7: Boolean

☒ 8: Boolean

☒ 9= \$7 & \$8:

10: Number 1

11= \$6 - \$10: 275

☐ 12: Boolean

13: String #f

(d) after answering questions 10, question 11 is defined; its value is > 9 such that the nested group is shown and its question 12 shadows the original version

Questionnaire

1: String Hello

2: String World

3= \$1++\$2: Hello World

4: Number 23

5: Number 12

6= \$4 \* \$5: 276

☒ 7: Boolean

☐ 8: Boolean

☐ 9= \$7 & \$8:

11 again: Number #f

13: String #f

☐ 12 again: Boolean

(e) deselecting question 8 deactivates the first group, such that the original question 11 & 12 are active again