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6 (Form (?? 'q1 "1: String" String)
7       (?? 'q2 "2: String" String)
8       (~? 'q3 "3= $1++$2:" (~ string-append (~> 'q1) (~> 'q2)))
9       (?? 'q4 "4: Number" Number)
10      (?? 'q5 "5: Number" Number)
11      (~? 'q6 "6= $4 * $5:" (~ * (~> 'q4) (~> 'q5)))
12      (?? 'q7 "7: Boolean" Boolean)
13      (?? 'q8 "8: Boolean" Boolean)
14      (~? 'q9 "9= $7 && $8:" (~ && (~> 'q7) (~> 'q8)))
15      (If (~> 'q9)
16          (?? 'q10 "10: Number" Number)
17          (~? 'q11 "11= $6 - $10:" (~ - (~> 'q6) (~> 'q10))))
18      (If (~! #t)
19          (?? 'q11 "11 again: Number" Number)
20          (If (~> (~> 'q11) (~! 9))
21              (?? 'q12 "12: Boolean" Boolean)
22              (?? 'q13 "13: String" String)
23              (?? 'q12 "12 again: Boolean" Boolean)))

```

ordinary question → 6
 computed question → 7, 8, 9, 10, 11
 question name (variable) → 12, 13, 14
 expected type of answer → 15, 16, 17
 label shown to user → 18, 19, 20, 21, 22, 23
 expression of computation → 15, 16, 17, 18, 19, 20, 21, 22, 23

first group: lines 15-17
 second group: lines 18-23
 nested group of second group: lines 19-23

(a) questionnaire source code

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)

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 of second group shown (computed question 9 evaluates to true) shadowing the original question 11 with its computed version

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

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 questions 11 & 12 are active again