< input type="text" name="ans.0.1.0.0" value="Sb0b0b23b180b0bbaCb1b1b283b57b1b0.1b0aCb2b2b233b306b2b0.2b0aTb3b3b620b44bb0.3b1aTb4b4b473b127b4b0.4b1aTb5b5b620b293b5b0.5b2aTb6b3b422b382b6b0.6b2a" size="152">

For each node.

First character is shape: Ab0b0b23b180b0bba

A: square with AND gate

O: square with OR gate

C: circle

D: diamond

MEMBER\_SEPARATOR: Sb0b0b23b180b0bba

id as integer Sb0b0b23b180b0bba

MEMBER\_SEPARATOR Sb0b0b23b180b0bba

Node type (drop down list index) as integer Sb0b0b23b180b0bba – name of node

MEMBER\_SEPARATOR Sb0b0b23b180b0bba

X coordinate as integer Sb0b0b23b180b0bba

MEMBER\_SEPARATOR Sb0b0b23b180b0bba

Y coordinate as integer Sb0b0b23b180b0bba

MEMBER\_SEPARATOR Sb0b0b23b180b0bba

Probability as float or integer (123 or 12.45) Sb0b0b23b180b0bba

MEMBER\_SEPARATOR Sb0b0b23b180b0bba

Parent id as integer (index into node list) Sb0b0b23b180b0bb<root node has no parent>a

NODE\_SEPARATOR Sb0b0b23b180b0bba

Next node, etc.

--------------------------------------------------------------------------------

App will be called in an iframe.

* Correct answer will be answer.html
* Student submission will be student.html

The student submission iframe will have an id value of the form: Question\_id

The correct answer iframe will have an id value of the form: Question\_id\_correct

The entries in the drop down list will be in the content of html elements with id of the form:

Question\_id\_entry\_number. Number will range from 0 to n.

If showing the correct answer then the string will be in the content of a html element with id of the form: Question\_id\_answer.

If showing the student’s answer after grading then the string will be in the content of a html element with id of the form: Question\_id\_submission. Otherwise it will be in an input element with id=”ans.1.0”

Example

Question:

Determine the probability that a <span id=”question\_flip\_entry\_0”>smoke alarm is triggered</span>. This can happen can either because <span id=”question\_flip\_entry\_1”>there is a fire</span> or because there is a <span id=”question\_flip\_entry\_2”>smoke alarm malfunction</span>. The probability of fire is 0.1, while the probability of a malfunction is 0.01.

Use the following applet to answer the question.

<iframe id=”question\_flip” src=”student.html”></iframe>

<input type=”text” value=”string student answered with last time” id=”ans.0.0”>

Comment:

The correct answer is given by:

<iframe id=”question\_flip\_correct” src=”answer.html”></iframe>

<span id=”question\_flip\_answer” style=”display:none”>”long string with correct answer”</span>

<span id=”question\_flip\_ submission” style=”display:none”> =”string student answered with last time” </span>

# Correct Answer

Values for the **drop down lists** will be in the correct answer string.

## Probability

For diamond and circle nodes values will be in the correct answer string

For square nodes

If type = “and” then:

Probability = product of child nodes. That is Y = X1 \* X2 \* X3 \* …

If type = “or” then:

Probability = 1 - product of (1 - child nodes). That is Y = 1 – ((1-X1) \* (1-X2) \* (1-X3) \* …)