Cause and Effect Graphing

Constraints

- Exclusive
  - At most one of a or b is true
Constraints

• Inclusive
  – At least one of a, b, c is true

Constraints

• One and only one
  – 1 and only 1 must be true
Constraints

• Requires
  – For a to be 1 then b must be 1

Constraints

• Mask
  – if effect a is 1 then b is 0
Example

Field 1
\{ A \}
\{ B \}

Field 2
digit

Output
1\textsuperscript{ST} char – print M1
2\textsuperscript{nd} char – print M2
O.K. – print M3

<table>
<thead>
<tr>
<th>Causes</th>
<th>Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 – 1\textsuperscript{st} is A</td>
<td>M1 – 100</td>
</tr>
<tr>
<td>2 – 1\textsuperscript{ST} is B</td>
<td>M2 – 101</td>
</tr>
<tr>
<td>3 – 2\textsuperscript{nd} is digit</td>
<td>M3 - 102</td>
</tr>
</tbody>
</table>