



A.xml

```
<system inter_gene_max_space=" $D_A$ " min_genes_required="n">
  <gene name="c1" presence="mandatory"/>
  <gene name="c2" presence="mandatory"/>
  <gene name="c3" presence="mandatory"/>
  <gene name="c4" presence="allowed"/>
  <gene name="c5" presence="forbidden" system_ref="B"/>
</system>
```

B.xml

```
<system inter_gene_max_space=" $D_B$ ">
  <gene name="c1" presence="mandatory"/>
  <gene name="c2" presence="mandatory"/>
  <gene name="c3" presence="mandatory"/>
  <gene name="c4" presence="allowed"/>
  <gene name="c5" presence="mandatory"/>
</system>
```