Appendix A

```
1  PROCEDURE genbcsp_cclass(n, m, p1, p2, s1, s2)
2  BEGIN
3      num_edges = n(n-1)/2 × p1
4      num_ones = m×m×p2
5      seed_random_generator(s1)
6      select num_edges randomly → Edges
7      seed_random_generator(s2)
8      FOREACH edge e in Edges
9          generate constraint matrix M
10         set all compound labels in M to 0
11         randomly set num_ones compound labels to 1
```

Figure A.1 - Random generator for binary CSPs in the same c-class, genbcsp_cclass

```
1  PROCEDURE genbcsp(n, m, p1, p2, s)
2  BEGIN
3      num_edges = n(n-1)/2 × p1
4      num_ones = m×m×p2
5      seed_random_generator(s)
6      select num_edges randomly → Edges
7      FOREACH edge e in Edges
8          generate constraint matrix M
9          set all compound labels in M to 0
10         randomly set num_ones compound labels to 1
```

Figure A.2 - Random generator for binary CSPs, genbcsp