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Relatório EP 1

Para testes com rainhas inclusas (K = 0), foram testados

N	K	tempo de compilacao
2	0	0.15s
3	0	0.13s
4	0	0.33s
5	0	6.61s
6	0	8.65s
7	0	14m24s
8	0	100m13s

Exemplos de resultados

2 0

```
UNSAT


real    0m1.617s
user    0m0.152s
```

3 0

```
UNSAT

real     0m2.074s
user     0m0.137s
```

4 0

```
SAT
 .  .  Q  .
 Q  .  .  .
 .  .  .  Q
 .  Q  .  .

real     0m2.483s
user     0m0.332s
```

5 0

```
SAT
 .  .  .  .  Q
 .  .  Q  .  .
 Q  .  .  .  .
 .  .  .  Q  .
 .  Q  .  .  .

real     0m7.724s
user     0m6.610s
```

6 0

```
SAT
 .  .  .  .  Q  .
 .  .  Q  .  .  .
 Q  .  .  .  .  .
 .  .  .  .  .  Q
 .  .  .  Q  .  .
 .  Q  .  .  .  .
```

```
real    0m10.700s
user    0m8.656s
```

70

```
SAT
. . . . . . Q
. . . . Q . .
. . Q . . . .
Q . . . . . .
. . . . . Q .
. . . Q . . .
. Q . . . . .

real    14m28.316s
user    14m.24.748s
```
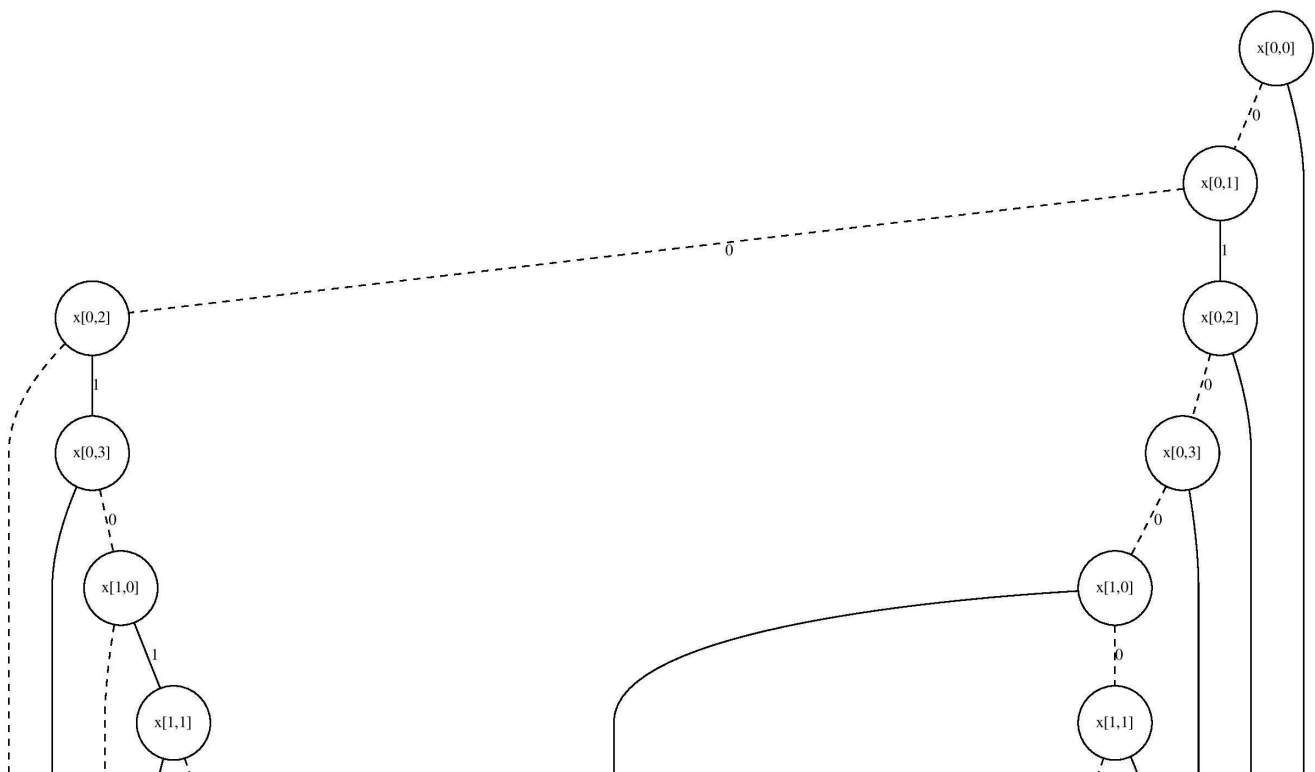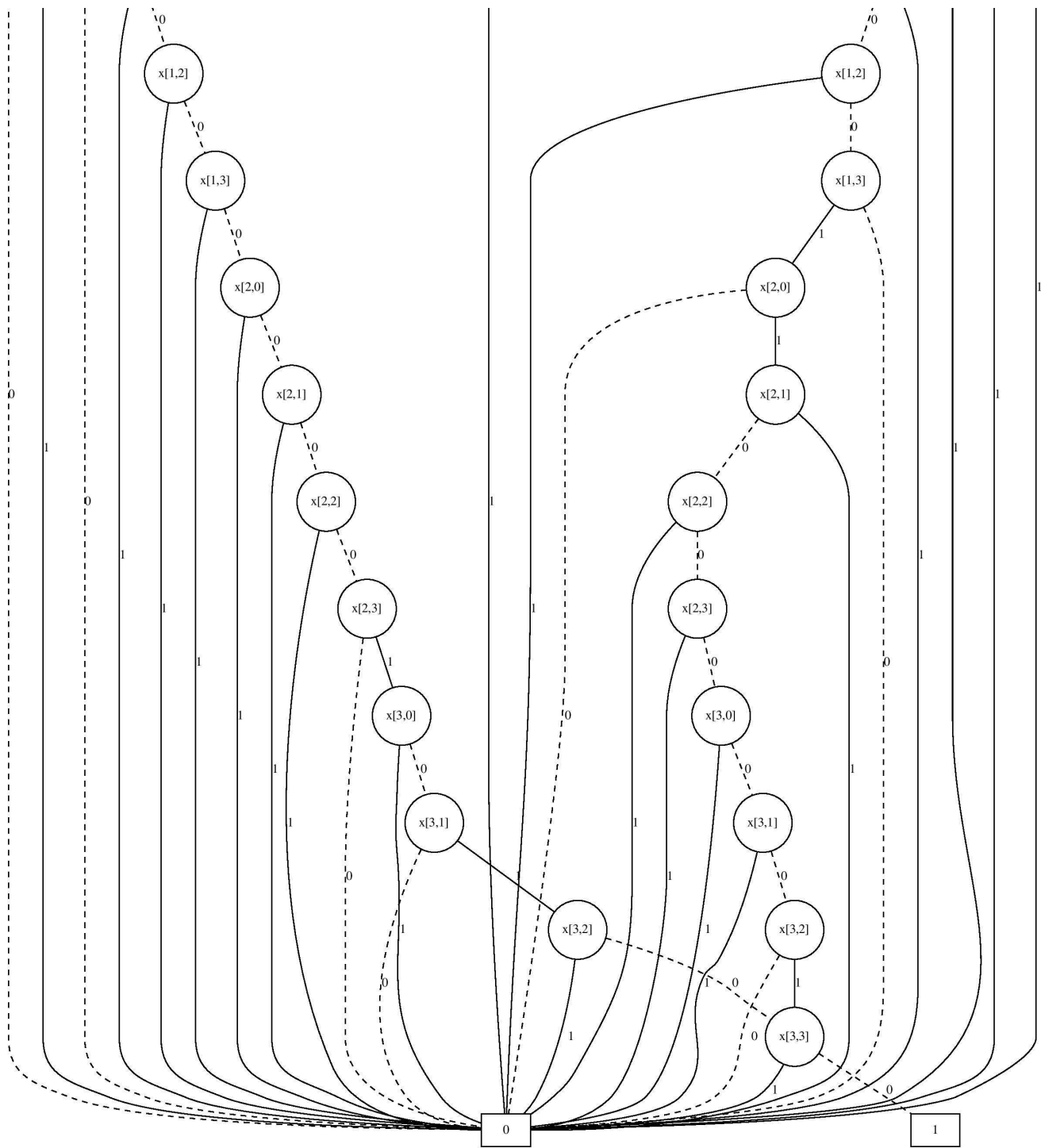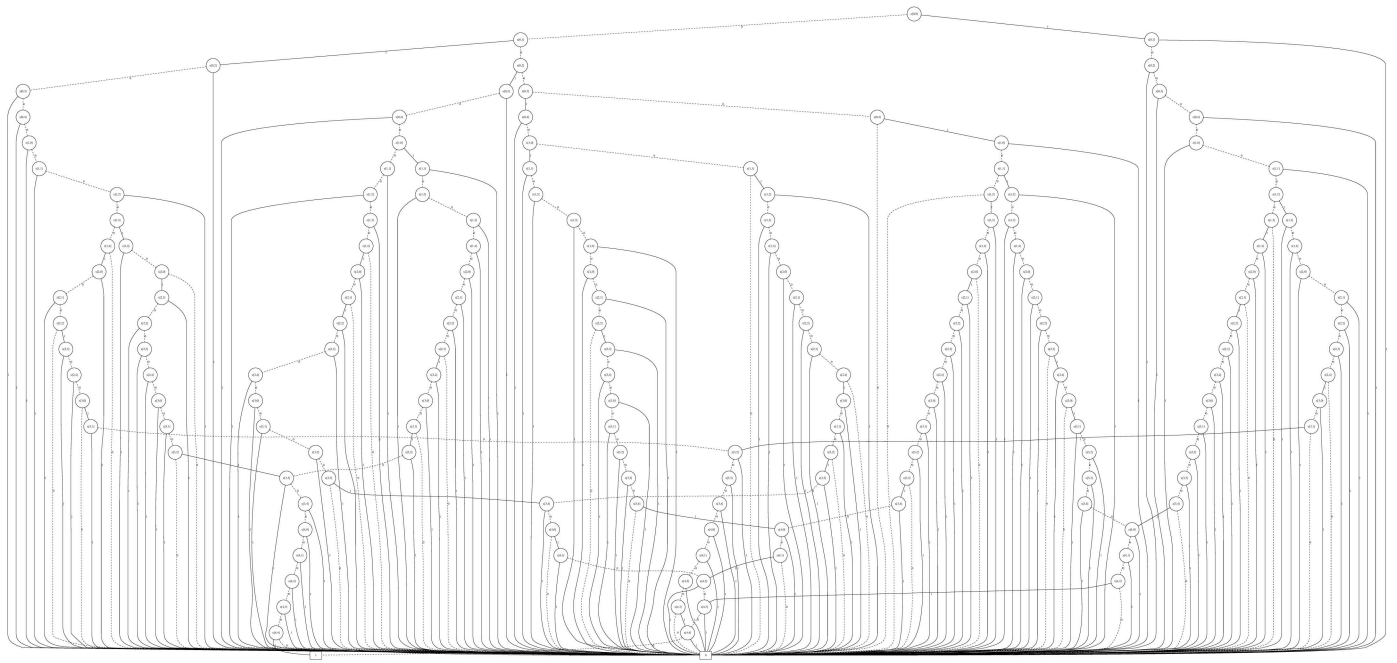
Imagens geradas

N = 4

N = 5

Para testes com rainhas não inclusas (K > 0), foram testados para:

N	K	tempo de compilacao
4	1	0.14s
4	2	0.19s
4	3	0.18s
4	4	0.19s
5	2	0.52s
8	8	7.88s

Exemplos de resultados

4 1

```
0 0
```

```
UNSAT

real    0m12.948s
user    0m0.176s
```

4 1

```
0 1

SAT
 .  Q  .  .
 .  .  .  Q
 Q  .  .  .
 .  .  Q  .

real    0m4.804s
user    0m0.147s
```

4 2

```
0 1
3 2

SAT
 .  Q  .  .
 .  .  .  Q
 Q  .  .  .
 .  .  Q  .

real    0m24.383s
user    0m0.194s
```

4 3

```
0 1
1 3
3 2
```

```
SAT
 . Q . .
 . . . Q
 Q . . .
 . . Q .

real    0m21.962s
user    0m0.187s
```

4 4

```
0 1
1 3
2 0
3 2

SAT
 . Q . .
 . . . Q
 Q . . .
 . . Q .

real    0m19.215s
user    0m0.193s
```

5 1

```
0 0

SAT
 Q . . . .
 . . . Q .
 . Q . . .
 . . . . Q
 . . Q . .

real    0m7.255s
user    0m0.526s
```

8 4

```
0 2
1 0
2 3
3 1


UNSAT
real    0m28.231s
user    0m0.449s
```

8 8

```
0 0
1 4
2 7
3 5
4 2
5 6
6 1
7 3


SAT
 Q  .  .  .  .   .  .  .
 .  .  .  .  Q  .  .  .
 .  .  .  .  .  .  .  Q
 .  .  .  .  .  Q  .  .
 .  .  Q  .  .  .  .  .
 .  .  .  .  .  .  Q  .
 .  Q  .  .  .  .  .  .
 .  .  .  Q  .  .  .  .


real    0m57.805s
user    0m7.889s
```