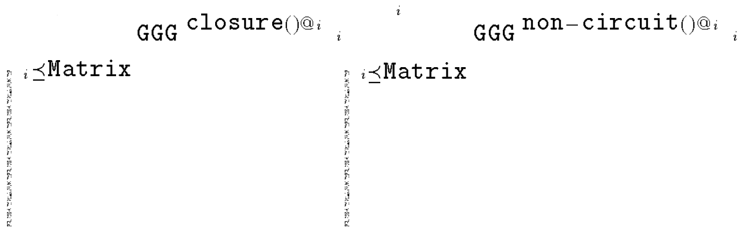
[redacted]

[redacted]

[redacted]


GGG closure()@i i
i
GGG non-circuit()@i i
i⪯Matrix
i⪯Matrix

C

Given a class C1 we posit 1 the set of instances of class C which have been created 1and inserted in C1 b

[redacted]

[redacted]

1igure 11 1ptimised 1lgorithm 1or 11

$_1$1 1 p 1 Persons1 p1spouse1spouse 1 p 1 p1spouse 1 nil1

the checking algorithm is described in 1igure 11

```
1 x 1 Persons   1 check 1  1x11
1 x 1 Persons
    1
```

1 check 11 ₁1x11

1 x 1 Persons

1

[redacted]

[redacted]