10.2

x ÷ y

```
1 x := x + 1;
2 LOOP x
#   Increase z unless x == 0
3   k := 0;
4   LOOP x DO k := 1 END
5   LOOP k DO z := z + 1 END
#   Substract divisor from dividend
6   LOOP y DO x := x - 1 END
7 END
8 z := z + 1;
```

x mod y

```
# get clones of variables for calculation
1  LOOP x DO a := a + 1 END
2  LOOP y DO b := b + 1 END
3  a := a + 1;
4  LOOP a
#    Increase z unless a == 0
5    k := 0;
6    LOOP a DO k := 1 END
7    LOOP k DO z := z + 1 END
#    Substract divisor from dividend
8    LOOP b DO a := a - 1 END
9  END
10 z := z + 1;
11 LOOP z DO
12   LOOP y DO
13     j := j + 1;
14   END
15 END
16 LOOP j DO x := x - 1; END
```

10.3

10.4