Exemple 1

```
1  // {C ≥ 0}
2  x = A
3  y = C
4  product = 0
5  while y > 0
6        product = product + x
7        y = y − 1
8  // {product = A × C}
```

Exemple 2

$g(n)$

```
1  if n ≤ 1
2        return n
3  else
4        return 5g(n − 1) − 6g(n − 2)
```

Exemple 3

CODE1(n)

```
1  limit = n ∗ n
2  sum = 0
3  for i = 1 to limit
4        sum = sum + 1
5  return sum
```

Exemple 4

CODE2(n)

```
1  i = 1
2  limit = n ∗ n ∗ n
3  sum = 0
4  while i < limit
5        sum = sum + 1
6        i = i ∗ 2
7  return sum
```

Exemple 5

```
CODE3(n)
1  limit = n * n
2  sum = 0
3  for i = 1 to limit
4       for j = 1 to i
5            sum = sum + 1
6  return sum
```

Exemple 6

```
CODE4(n)
1  if n ≤ 1
2       return n
3  else
4       return CODE4(n − 1) + procCode4(n − 1)
```

Exemple 7

```
CODE5(a, b, c, n)
1  for i = 1 to n
2       for j = 1 to n
3            a[i][j] = 0
4            for k = 1 to n
5                 a[i][j] = a[i][j] + b[i][k] * c[k][j]
```

Exemple 8

```
CODE6(n)
1  if n == 0
2       return ""
3  else
4       tmp = CODE6(n/2)
5       if n%2 == 0
6            return tmp + tmp
7       else
8            return tmp + tmp + "x"
```

Exemple 9

```
CODE7(n)
1  s = ""
2  for i = 1 to n
3       s = s + "x"
4  return s
```