

## Exercise 3

### Task 1

Perform a division with remainder with Newton's method for  $s = 87$  and  $t = 7$ .

### Task 2

Let  $x$  and  $y$  be natural numbers in binary representation. Compute the subtraction  $x - y$  in NC, where  $x - y = 0$  if  $x < y$ .

### Task 3

Compute the number of paths between two nodes in a directed acyclic graph in NC.