

Exercise 2

Task 1

Let x and y be natural numbers in binary representation. Decide in NC, whether $x < y$.

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.