

function ERDOSRENYI(number of nodes n , number of edges e , number of operations o)

$P \leftarrow \{(i, j) \mid i \in \{1 \dots n - 1\} \wedge j \in \{0 \dots i - 1\}\}$

▷ All possible interactions

$N_0 \leftarrow$ Sample e edges from P

$N_c \leftarrow N_0$

while $|O| < o$ **do**

$e_a \leftarrow$ Sample 1 edge from $P \setminus N_c$

$e_r \leftarrow$ Sample 1 edge from N_c

$N_c \leftarrow (N_c \setminus e_r) \cup \{e_a\}$

$O \leftarrow O + ((\text{ADD}, e_a), (\text{REM}, e_r))$

end while

$O \leftarrow \text{HEAD}(O, o)$

return (N_0, O)

▷ Return the initial geometric network and o operations

end function