Data:

Input

– i flow id

– L_{min}

– L_{max}

– h_{final}

– P_i le path jusqu'à h_{final}

Local

– lp_i

– $first_i$

– ensemble des C_k^l avec $k \in lp_i$ et $l \in P_i$

Result:

– $\delta_i^{h_{final}}$

$x = 0$;

for $j \in lp_i$ **do**

    if $first_i = first_{j,i}$ **then**

        $tabPart1[x] = C_j^{first_i}$;

        $x + +$;

    end

end

if $max(tabPart1) - 1 < 0)$ **then**

    $result = 0$;

end

else

    $result = max(tabPart1) - 1$;

end

for $h \in P_i$ **do**

    $resultPart2 = 0$;

    $tabPart2 = 0$;

    if $h \neq first_i$ **then**

        if $h = first_{j,i}$ **then**

            $m = 0$;

            for $j \in lp_i$ **do**

                $tabPart2[m] = C_j^h$;

            end

            $resultPart2+ = max(tabPart2) - 1$;

        end

        else if $h \in (first_{j,i}; last_{j,i}]$ *and* $first_{j,i} \neq first_{i,j}$ **then**

            $m = 0$;

            for $j \in lp_i$ **do**

                $tabPart2[m] = C_j^h$;

            end

            $resultPart2+ = max(tabPart2) - 1$;

        else if $lp_i \neq \emptyset$ **then**

            $m = 0$;

            for $j \in lp_i$ **do**

                $tabPart2[m] = C_j^h$;

            end

            $resultPart2+ = max(tabPart2) - C_i^{pre_i(h)} \overset{2}{+} L_{max} - L_{min}$;

        else

            $resultPart2 = 0$;

        end

        if $tabPart2 \geq 0$ **then**

            $result+ = resultPart2$;

            $resultPart2 = 0$;

        end

    end

end