Advanced Algorithm Pseudocode

## Algorithm 1: Dynamic Programming Approach Edit Distance bis Input: X, Y /\* Parameters : X , Y : strings /\* Return : ed: integer, optimal edit distance between X and Y. /\* /\* alignment: array of instructions, to go from Y to X. /\* 1 R $\leftarrow$ ed\_dynamic\_mat(X,Y)// top-left to bottom right 2 L $\leftarrow$ backward\_ed\_dynamic\_mat(X,Y)// bottom right to top-left $s S \leftarrow R+L;$ $4 \text{ ed} \leftarrow S[0,0];$ 5 alignment ←extract optimal "path" from S.; /\* The optimal path is one of the possible path which goes from top-left to bottom-rigth cell of S, using only the cells with minimum number (the edit distance). \*/ 6 return {ed : ed , alignment : alignment}