Adjacency matrix algorithm pseudocode

Algorithm 1: Algorithm for building an adjacency matrix

    Input   : Edges E and number of vertices n
    Output: Adjacency matrix A

1 Function $\underline{adjacency\_matrix}\ (E, n)$
2   Create $n \times n$ matrix A filled with 0;
3   **for** *(v, w) in E* **do**
4 $A[v][w] := 1$;
5 $A[w][v] := 1$;
6   **end**
7   **return** A;
8 end