## ALGORITHM: CONNECTED COMPONENTS

Input: Undirected graph g = (V,E)

Output: an array C of arrays that contains all the connected components in graph g.

- (1) Initialize C to an empty array
- (2)  $N \leftarrow V$
- (3) While ||N|| > 0 do
- $j \leftarrow random node from N$
- $\begin{array}{l} (d,p,w) \leftarrow BFS(g,j) \\ C \leftarrow C \bigcup w \end{array}$ (5)
- (6)
- $N \leftarrow N \setminus \{w\}$ (7)
- (8) Return C