```
OFS-connected-component (G):
  Given: de 0
  for all vertices Vin G:
    visited [v] < false;
     finished[v] & false;
      Plv] Enil;
  for all vertices in G:
     if not visited Iv);
     then, c= c+1;
      075 (V, d):
075(V, c):
  visited Ir) = true;
  component [v] Ed.
  for all vertices w in Adjacency [V]:
    if not visited [w]:
    then, PIWJEV;
      DFS(w,d);
  finished [V] & true;
```