
Algorithm 6 CentralEntityResolution(C, p)

- 1: $\{C$ is the given community and p is a threshold value $\}$
 - 2: Calculate the centrality of each vertex v_i in C
 - 3: v_0, v_1, \dots, v_{n-1} is arranged by the descending order of their *centrality* c_0, c_1, \dots, c_{n-1}
 - 4: $i \leftarrow 0$
 - 5: **while** $i < n - 1$ **do**
 - 6: **if** $\frac{c_i - c_{i-1}}{c_i - c_{n-1}} > p$ **then**
 - 7: **return** $\{c_k | 0 \leq k \leq i\}$
 - 8: **else**
 - 9: $i \leftarrow i + 1$
 - 10: **end if**
 - 11: **end while**
-