

```

1  main(G):
2      G_r = graph_reverse(G) //flip all edges in graph, O(m)
3
4      G_sinks = DFS_all(G_r).sources //black box DFS_all to find sources from G_r
5
6      return maximum of (find_longest_path for each of G_sinks)
7
8  graph_reverse(G): //O(m)
9      for all edges in G:
10         edge(u,v) = edge(v,u)
11     return G
12
13  find_longest_path(G, v):
14      if v has no children:
15         return v.time
16
17     return v.time + max([find_longest_path for each of v.children])

```