

```

1  main(G):
2      G_r = graph_reverse(G) //flip all edges in graph, O(m)
3
4      return find_longest_path(G_r, v) - v.time for each vertex v in G
5
6  graph_reverse(G): //O(m)
7      for all edges in G:
8          edge(u,v) = edge(v,u)
9      return G
10
11 find_longest_path(G, v):
12     if v has no children:
13         return v.time
14
15     return v.time + max([find_longest_path for each of v.children])

```