er vi
a vi

$$x_{avi}$$

 x_{avi}
 y_{avi}
 x_{avi}
 y_{avi}
 y_{i}
 v_{i}
 v_{i}

H minimal = so
$$H + e - f$$
 is no lighter than H
 $\omega(H + e - f) = \omega(t + 1) + \omega(e) - \omega(f) \ge \omega(t + 1)$
 $\Rightarrow \omega(e) \ge \omega(f)$

Inductively constructly a subgraph TCG each step, add an edge of minimal length such that only one vertex of edge is in T (and add other writer)

