In this case, $g_{t+1}^{ac} \neq g$
then, reward = -1

desired goal: g

achieved goal: g_{t+1}^{ac}

Hindsight Goal Relabelling:
Let $g' = g_{t+1}^{ac}$

In this case, $g_{t+1}^{ac} = g'$
then, reward = 0

relabelled desired goal: g'

achieved goal: g_{t+1}^{ac}

original desired goal: g