

# Homework Week 2

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June 11, 2022

## 1 No skip

Because the definition of the LTL logic symbol  $\diamond$  is that at some point, the followed statement will be true. At the time when  $x$  is equal to 3,  $(x == 1 \mathcal{U} x == 3)$  is guaranteed to be true. Hence we can conclude that  $\diamond(x == 1 \mathcal{U} x == 3)$  is not violated for the given code.