Concordia University
Department of Computer Science and Software
Engineering
SOEN 331 - S and U
Introduction to Formal Methods
for Software Engineering

Assignment 4 - Solutions
Temporal Logic
Team 19 - Section U

Samuel Boaknin   **Ryan Leyland**   **Saleha Tariq**
40009692   40015165   40006997

Meng Susana Ung
40099729

Date: April 19, 2021

Contents

1 Question 1

2 Question 2

(1)

ϕ ϕ ...
ψ

or ψ

     or ψ
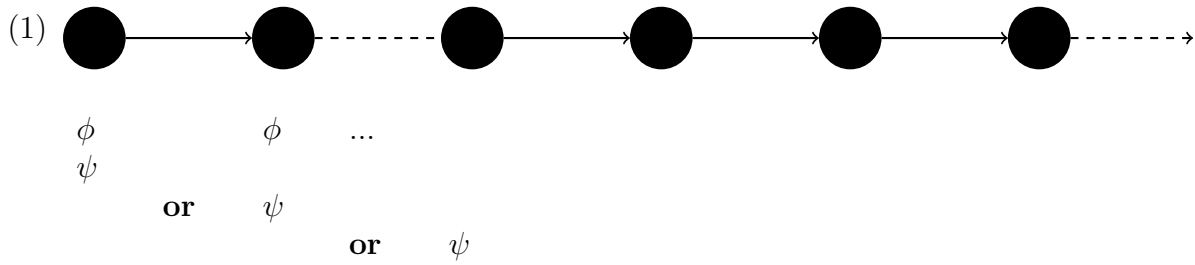
If ϕ is an invariant, then ψ is true in some moment in time.

(2)

ϕ ϕ ϕ ...
       ψ ψ ...

or ψ ψ ...

   or ψ ψ ...
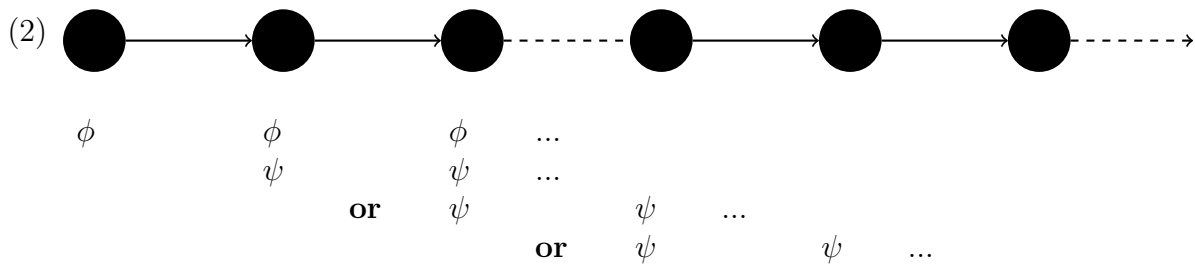
If ϕ is an invariant, then from $i + 1$ onwards, ψ could become an invariant.

(3)

(4)

(5)

(6)

(7)

(8)