**IIT CS536: Science of Programming**

Homework 7: Separation Logic, Nondeterminism, and Parallelism

Prof. Stefan Muller

Submitted by: Abdurakhmon Urazboev

**Task 1.1**

**Task 1.2**

**A black line drawing of a square with arrows

Description automatically generatedTask 2.1**



A black rectangular object with a black line

Description automatically generated

A diagram of a mathematical equation

Description automatically generated



A black and white image of a square with letters

Description automatically generated

A black and white diagram

Description automatically generated

This means heap has exactly one location.

A black and white symbol

Description automatically generatedA diagram of a number and a number

Description automatically generated with medium confidenceTask 2.2

A black square with a black and white square with a black and white square with a black and white square with a black and white square with a black and white square with a black and white square

Description automatically generatedA black and white symbol with black lines and numbers

Description automatically generated

A black and white diagram with numbers and a white background

Description automatically generated with medium confidence

A black and white symbol with a dotted line

Description automatically generated



Task 2.3











Task 3.1

Task 4.1

A math problem with lines and numbers

Description automatically generated with medium confidence