

Friday, March 16

Name \_\_\_\_\_ Solutions \_\_\_\_\_

Email \_\_\_\_\_ 6.s081-www@mit.edu \_\_\_\_\_

6.s081 Spring 2018

Miniquiz #17

5 Minutes

Given the following block:

5 - 3
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Answer the following questions about the template below:

?<sub>1</sub>

?<sub>2</sub>

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( [ ], 5 - 3 ) → ( [ ?<sub>3</sub> ], bb? )

1. What inference rules do we need to replace ?<sub>1</sub> and ?<sub>2</sub> with?

alloc\_const([ ], 5, [5], 0)

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( [ ], 5 ) → ( [5], [ load\_const 0 ] )

alloc\_const([5], 3, [5, 3], 1)

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( [5], 3 ) → ( [5, 3], [ load\_const 1 ] )

2. What elements are in the ?<sub>3</sub> array?

[5, 3]

3. What's in the basic block represented by bb? ?

[ load\_const 0, load\_const 1, sub ]