

**17-355/17-655/17-819: Program Analysis**

**Interprocedural Analysis**

**In-Class Exercises**

**February 19, 2019**

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1. Analyze the following program using context-sensitive interprocedural constant propagation analysis:

```
function iid(x,y)
    if x <= 0
        return y
    else
        return iid(x-1, y)
```

```
function main(input)
    a = iid(1,2)
    b = iid(input, 7)
```

Use the following table:

<b>Function</b>	<b>Context</b>	<b>Output</b>
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