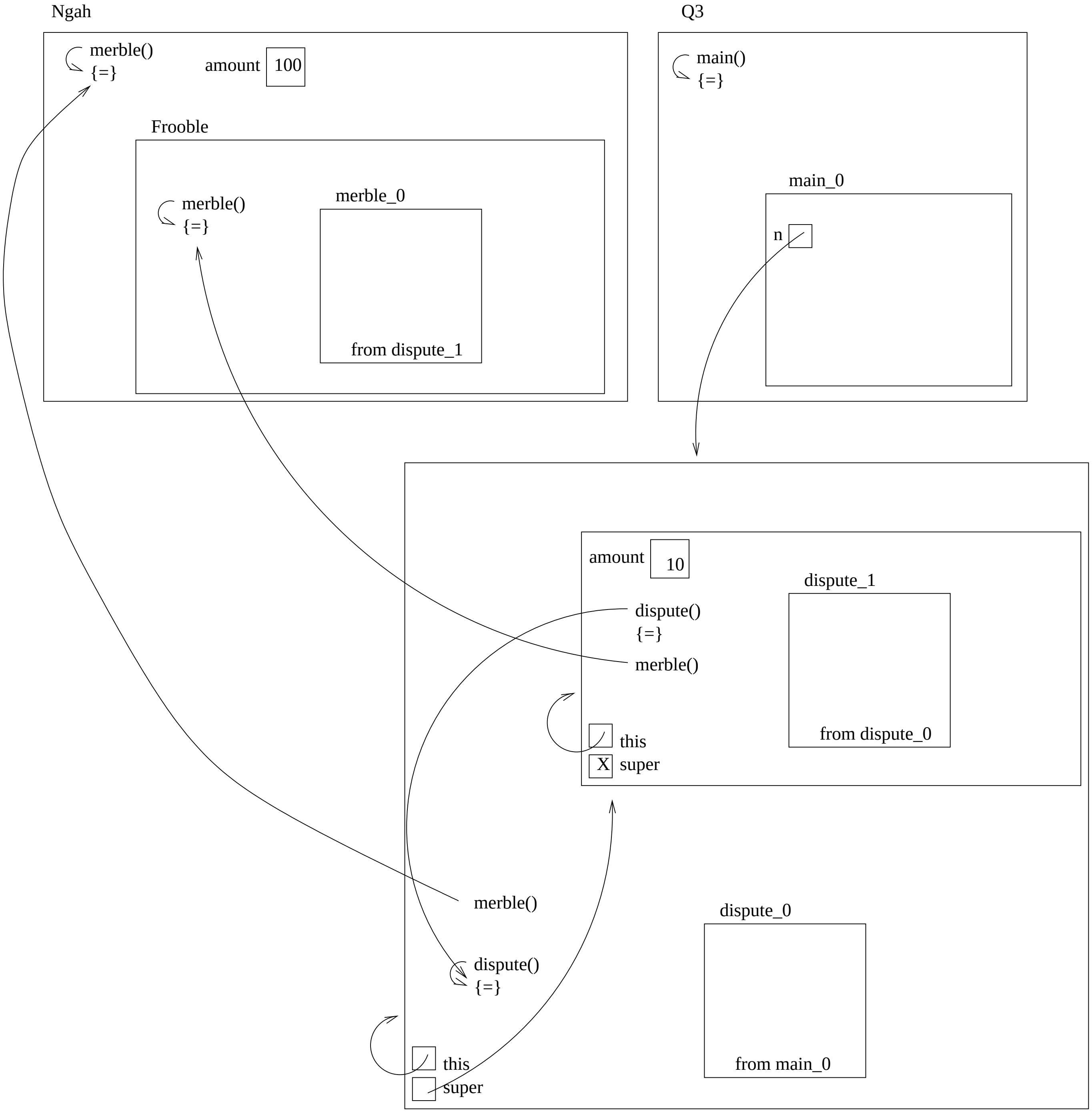
Computer Science CSC 324S: Quiz 3 solution%

Last Name **First Name** **Student ID Number**

1. For the following code, complete the drawing of the state of the program the first time the line marked `//***` is reached. (Note that there may be some boxes and arrows missing in the picture – draw them in. Also, don't forget to include the "from x" words to indicate the order in which method frames were called.)

```
class Frooble {             | class Ngah extends Frooble {       | class Q3 {
    int amount;             |     static int amount;             |     public static void main(
                            |                                    |             String[] pars) {
    void dispute() {        |     void dispute() {               |
        amount += 10;       |         super.dispute();           |         Ngah n = new Ngah();
        merble();           |         super.merble();            |         n.dispute();
    }                       |     }                              |         System.out.println(
                            |                                    |             n.amount );
    static void merble() {  |     static void merble( Ngah n ) { |         System.out.println(
        Ngah.amount += 100; |         n.amount += 1000;          |              ((Frooble)n).amount );
        //***               |         amount += 500;             |     }
    }                       |     }                              | }
}                           | }                                  |
```


Ngah
merble()
{=}
amount
100
Frooble
merble()
{=}
merble_0
from dispute_1
Q3
main()
{=}
main_0
n
amount
10
dispute_1
dispute()
{=}
merble()
from dispute_0
this
X
super
merble()
dispute()
{=}
dispute_0
this
super
from main_0