

Credit Name: CSE 3120 Object-Oriented Programming 1

Assignment Name: Nim2

Error Log Entry

What error message did you encounter (if any)?

What unexpected behavior did your program exhibit?

On the computer's turn it took more stones than were available

```
Computer takes 1 stone(s).  
Stones remaining: -1
```

What caused the issue? (e.g., syntax error, logic error, incorrect function usage, etc.)

Logic error- there wasn't a clause that stopped it from taking too many

Include a screenshot of specific lines of code.

```
public int comTakeStone()  
{  
    Random amount = new Random();  
    int take = amount.nextInt(1 - 3) + 1;  
    comStones += take;  
    number -= take;  
  
    return take;  
}
```

How did you fix the issue?

I added a variable which determined the max amount of stones the computer could take, 3 or the number of stones remaining (whichever is lower)

Provide the corrected code or solution using a screenshot.

```
// calculate random amount of stones to  
Random amount = new Random();  
int maxTaken = Math.min(3, number); // 1  
int take = amount.nextInt(maxTaken) + 1;  
number -= take;  
  
return take;
```

Test:

```
There are 28 stones.  
How many stones would you like to take?(1, 2 or 3)  
1  
Stones remaining: 27  
Computer takes 2 stone(s).  
Stones remaining: 25  
How many stones would you like to take?(1, 2 or 3)  
2  
Stones remaining: 23  
Computer takes 1 stone(s).  
Stones remaining: 22  
How many stones would you like to take?(1, 2 or 3)  
3  
Stones remaining: 19  
Computer takes 2 stone(s).  
Stones remaining: 17  
How many stones would you like to take?(1, 2 or 3)  
2  
Stones remaining: 15  
Computer takes 1 stone(s).  
Stones remaining: 14  
How many stones would you like to take?(1, 2 or 3)  
1  
Stones remaining: 13  
Computer takes 1 stone(s).  
Stones remaining: 12  
How many stones would you like to take?(1, 2 or 3)  
3  
Stones remaining: 9  
Computer takes 1 stone(s).  
Stones remaining: 8  
How many stones would you like to take?(1, 2 or 3)  
2  
Stones remaining: 6  
Computer takes 2 stone(s).  
Stones remaining: 4  
How many stones would you like to take?(1, 2 or 3)  
3  
Stones remaining: 1  
Computer takes 1 stone(s).  
Stones remaining: 0  
You won!
```

