

CSE337 Homework 1

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Question 3 output:

```
#Output1
```

```
>>> a = [1,2]
>>> b = [a,3]
>>> c = b[:]
>>> a[0]=7
>>> b[1]=8
>>> c
[[7, 2], 3]
>>> import copy
>>> c = copy.deepcopy(b)
>>> c
[[7, 2], 8]
>>> a[0]=5
>>> c
[[7, 2], 8]
```

```
#Output2
```

```
>>> import copy
>>> a = [[[1,2,3],2],4]
>>> b = copy.deepcopy(a)
>>> a[0][0][2] = 11
>>> a[0][1] = 5
>>> b
[[[1, 2, 3], 2], 4]
>>> a
[[[1, 2, 11], 5], 4]
```

```
>>> exit()
```

Question 4:

- 1.
2. if $n=2$ and $r=1$ then the condition $n>r$ will succeed and break the loop, printing out "Better luck next time"
3. if $n=1$ and $r=1$ then the condition $n==r$ will succeed and continue the loop without printing "x"
4. if $n=2$ and $r=2$ then the condition $n==r$ will succeed and continue the loop without printing "x" but since that's the last iteration, it will print out "Wow you are lucky"
5. if $n=0$ and $r=2$ then the condition $n>r$ will fail and so "x" will be printed out and the next iteration of loop will start
6. In general, "Wow you are lucky" will be printed if r is less than or equal to n for all three iterations of the loop