

## Python Packet #2: Loops Not Oops

Key Idea:

- Using “for x in range(0,?): ” to make patterns.
- Using counters inside of loops to our benefit

**Before you solve these problems watch the following videos & code along!**

[Video 1: Diagonals](#)

[Video 2: Boxes](#)

### *Scoring:*

*You need a minimum of 70 experience points to move on from this packet. How you choose to achieve that task is entirely up to you.*

*100 Points: A+*

*90 Points: A*

*80 Points: B*

*70 Points: C*

*Below 70 Points: F*



**Challenge 4:**

[Now we get spicy....](#)

```
What height would you like? 10
>>>10
>>>9
>>>8
>>>7
>>>6
>>>5
>>>4
>>>3
>>>2
>>>1
```

*+30  
Experience  
Points*

*+30  
Experience  
Points*

**Challenge 5:**

[Hugs and Kisses](#)

If you think you should do this one  
because it looks easy...

```
Give me a number! 3
x00x
x00x
x00x
x00x
>>> _
```

*+30  
Experience  
Points*

**Challenge 6:**

[Diagonals on Diagonals?!?!?](#)

```
Give me a number... 10
Give me a symbol... %
//////////
//////////
//////////
//////////
//////////
//////////
//////////
//////////
//////////
//////////
//////////
//////////
//////////
//////////
//////////
//////////
//////////
//////////
//////////
//////////
```