

<pre>i = 2 while i < 100: j = 2 prime = True while j < i: if i % j == 0: prime = False break j += 1 if prime: print(i, "is prime") i = i + 1</pre>						 Modify the code given to print out the first 50 prime numbers, rather than just the prime numbers less than 100. Once that works, make your output look like the output below. 				
2	3	5	7	11	13	17	19	23	29	
31	37	41	43	47	53	59	61	67	71	
73	79	83	89	97	101	103	107	109	113	
127	131	137	139	149	151	157	163	167	173	
179	181	191	193	197	199	211	223	227	229	
Rhodes College			See drawStars.py and nestedLoopGraphics.py for solutions to the other Nested Loop Lab problems.							





Saving Previous Value in Loop

You may need to hold onto a previous input for a calculation later in a loop.

import random

```
prev_roll = random.randint(1, 6)
curr_roll = random.randint(1, 6)
print("Previous = ", prev_roll, "current = ", curr_roll)
while not(prev_roll == 1 and curr_roll == 1):
    prev_roll = curr_roll
    curr_roll = random.randint(1, 6)
    print("Previous = ", prev_roll, "current = ", curr_roll)
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```

Saving Previous Value in Loop

Equivalent code to previous slide.

```
import random
curr_roll = random.randint(1, 6)
while True:
    prev_roll = curr_roll
    curr_roll = random.randint(1, 6)
    print("Previous = ", prev_roll, "current = ", curr_roll)
    if prev_roll == 1 and curr_roll == 1:
        break
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```

Saving Previous Value in Loop

```
prev = int(input("Number? "))
curr = int(input("Number? "))
diff = prev - curr
while diff != 0:
    print("Difference = ", diff)
    prev = curr
    curr = int(input("Number? "))
    diff = prev - curr
print("Done")
```

