▾ Debugging

```
############DEBUGGING####################

# Describe Problem
def my_function():
  for i in range(1, 21):  #This is taking the elements from 1 to "20" but really only reaches
    if i == 20:            #This is making a condition when i == 20
      print("You got it") #print() should appear when i == 20;
my_function()
```

```
    You got it
```

```
# Reproduce the Bug
from random import randint
dice_imgs = ["❶", "❷", "❸", "❹", "❺", "❻"]
dice_num = randint(0, 5)
print(dice_imgs[dice_num])
#Before it give us the error of index out of range it's already fixed
```

    ⟼   ❺

```
# Play Computer
year = int(input("What's your year of birth? ")) #Input an integer
if year > 1980 and year < 1994: #Condition that ages between (1980,1994)
  print("You are a millenial.")    #Prints if condition is true
elif year >= 1994: # condition for (1994, infty)
  print("You are a Gen Z.") #Prints condition if true

#The error was > instead of >=
```

```
    What's your year of birth? 1994
    You are a Gen Z.
```

```
# Fix the Errors
age = int(input("How old are you? "))
if age > 18:
  print(f"You can drive at age {age}.")
```

```
    How old are you? 21
    You can drive at age 21.
```

```
#Print is Your Friend
pages = 0
```

```
word_per_page = 0
pages = int(input("Number of pages: "))
word_per_page = int(input("Number of words per page: "))
total_words = pages * word_per_page
print(total_words)
```

```
        Number of pages: 15
        Number of words per page: 5
        75
```

```
#Use a Debugger
def mutate(a_list):
  b_list = []
  for item in a_list:
    new_item = item * 2
    b_list.append(new_item)
  print(b_list)

mutate([1,2,3,5,8,13])
```

```
        [2, 4, 6, 10, 16, 26]
```

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