

< 프로그래밍 in Python >

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from random import randint
def generate_numbers():
    numbers = []
    while len(numbers) < 3:
        new_number = randint(0, 9)
        if new_number not in numbers:
            numbers.append(new_number)
    return numbers
def take_guess():
    new_guess = []
    while len(new_guess) < 3:
        num = int(input("{}번째 수를 입력하세요: ".format(len(new_guess) +
1)))
        if num < 0 or num > 9:
            print("0에서 9까지의 수를 입력해 주세요!")
        elif num in new_guess:
            print("중복되는 숫자입니다. 다시 입력하세요.")
        else:
            new_guess.append(num)
    return new_guess
def get_score(guess, answer_list):
    strike_count = 0
    ball_count = 0
    for i in range(3):
        if guess[i] == answer_list[i]:
            strike_count += 1
        elif guess[i] in answer_list:
            ball_count += 1
    return strike_count, ball_count
# 여기서부터 게임 시작!
ANSWER = generate_numbers()
tries = 0
while True:
    user_guess = take_guess()
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s, b = get_score(user_guess, ANSWER)
print("{}S {}B\n".format(s, b))
tries += 1
if s == 3:
    break
print("축하합니다. {}번 만에 세 숫자의 값과 위치를 모두 맞추셨습니다.".format(tries))
```