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#DheethyaB Patolli Program Python
#Grade 6, Teckmind Inc.
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squares = ['9', '16', '25', '36', '49']
primes = ['2', '3', '5', '7', '11', '13', '17', '19', '23', '29', '31', '37', '41', '43', '47']
list_of_puzzles = []
rule_nine = [[6, 7, 8], [11, 12, 13], [16, 17, 18], [21, 22, 23], [26, 27, 28], [34, 35, 36],
[39, 40, 41], [44, 45, 46], [49, 50, 51]]
path_list = []
for x in range(5):
    puzzles = input("Please input the puzzle. ")
    list_of_puzzles.append(puzzles)
for puzzle in list_of_puzzles:
    splitty_thing = puzzle.split(" ")
    blocked_nums = []
    blocked_nums.append(splitty_thing[0])
    blocked_nums.append(splitty_thing[1])
    blocked_nums.append(splitty_thing[2])
    starting_space = splitty_thing[3]
    number_rolls = splitty_thing[4]
    rolls = list(splitty_thing[5:])
    curr_space = int(starting_space)
    for roll in rolls:
        path_list = []
        path_list.append(int(curr_space))
        for j in range(int(roll)):
            curr_space = int(curr_space) + 1
            path_list.append(curr_space)
        if int(curr_space) == 52:
            break
        elif int(curr_space) > 52:
            curr_space = int(path_list[0])
        elif str(curr_space) in blocked_nums:
            curr_space = int(path_list[0])
        elif str(curr_space) in primes:
            for i in range(6):
                curr_space += 1
                if str(curr_space) in blocked_nums:
                    curr_space -= 1
                    break
        elif str(curr_space) in squares:
            for i in range(6):
                curr_space -= 1
                if str(curr_space) in blocked_nums:
                    curr_space += 1
                    break
        elif str(curr_space) not in squares and str(curr_space) not in primes:
            for i in rule_nine:
                if i[0] in path_list and i[1] in path_list and i[2] in path_list:
                    rule_nine_multiple = False
                    rule_nine_iterator = len(path_list) - 1
                    while rule_nine_multiple is False and rule_nine_iterator >= 0:
                        if int(path_list[rule_nine_iterator]) % int(roll) == 0:
                            if str(path_list[rule_nine_iterator]) not in blocked_nums:
                                curr_space = path_list[rule_nine_iterator]
                                rule_nine_multiple = True
                            else:
                                rule_nine_iterator -= 1
                        else:
                            rule_nine_iterator -= 1
                    if rule_nine_multiple is False:
                        curr_space = int(path_list[0])
            starting_space = str(curr_space)
    if curr_space != 52:
        print("Your final space: " + str(curr_space))
    else:
        print("Congratulations: " + "GAME OVER")
    rolls = []
    path_list = []
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