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# Sriram Chalamacharla code
import math


def num_transform(num_str):
    # print("input:" + num_str)
    num_arr = num_str.split(" ")
    n = num_arr[0]
    p = int(num_arr[1])
    d = int(num_arr[2])
    # get pth element from right and covert to int
    pth = int(n[-p])
    # print("pth:" + str(pth) + ", d:" + str(d))

    new_digit = ""
    if 0 <= pth <= 4:
        # add d to pth
        new = str(pth + d)
        # take the units digit
        new_digit = str(new[-1])
    elif 5 <= pth <= 9:
        # subtract d from pth
        new = str(abs(pth - d))
        # take the leftmost digit
        new_digit = str(new[0])
    # print("new_digit " + new_digit)

    # print("before replace")
    # print(n)
    # change to list to replace pth digit with new_digit
    n = list(num_arr[0])
    # replacing pth with the new_digit
    n[-p] = new_digit
    # print("after replace")
    # print(n)

    # replacing all digits to the right of the pth digit by 0
    pth_place = math.pow(10, p - 1)
    # print("pth place: " + str(pth_place))
    str_n = "".join(n)
    # print("str_n " + str_n)
    rem = int(str_n) % pth_place
    result = int(str_n) - rem
    # print("output:" + str(result))
    return str(int(result))


"""output1 = num_transform("4318762 4 3")
output2 = num_transform("72431685 1 7")
output3 = num_transform("123456789 7 8")
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output4 = num_transform("9876543210 10 25")
output5 = num_transform("314159265358 8 428")

print("output1: " + output1)
print("output2: " + output2)
print("output3: " + output3)
print("output4: " + output4)
print("output5: " + output5)"""

inputs = ["124987 2 3", "540670 3 9", "7145042 2 8", "124987 2 523", "4386709 1 2"]
i = 1
for input_ in inputs:
    output = num_transform(input_)
    print(str(i) + ". " + output)
    i += 1
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