text = open("lint-test-input.txt", "r")
head = text.read()
head = head.splitlines()

one = head[0]
two = head[1]
three = head[2]
four = head[3]
five = head[4]

one = one.split()
one_1 = one[0].strip()
one_2 = one[1].strip()
two = two.split()
two_1 = two[0].strip()
two_2 = two[1].strip()
three = three.split()
three_1 = three[0].strip()
three_2 = three[1].strip()
four = four.split()
four_1 = four[0].strip()
four_2 = four[1].strip()
five = five.split()
five_1 = five[0].strip()
five_2 = five[1].strip()

def transformer(one, two):
    two = -1 * int(two) % len(one)
p = int(one[two])
output = ""
for x in range(0, len(one)):
    ex = int(one[x])
    if x < two:
        y = (ex + p) % 10
        output += str(y)
    elif x == two:
        output += str(ex)
    else:
        y = abs(ex - p)
        output += str(y)
return output

print(transformer(one_1, one_2))
print(transformer(two_1, two_2))
print(transformer(three_1, three_2))
print(transformer(four_1, four_2))
print(transformer(five_1, five_2))