def splitNum(number):
    return list(number)

file = open("lint_testdata.txt", 'r')
lineNum = 1
for line in file:
    newLine = line.split()
    orig = newLine[0]
    p = int(newLine[1])
    original = splitNum(orig)
    final = ""

    for i in range(len(original)):
        number = int(original[i])
        pLoc = original[len(original) - p]

        if i < len(original) - p:
            number = number + int(pLoc)
            if number >= 10:
                number = number % 10
        elif i > len(original) - p:
            number = abs(number - int(pLoc))

        final = final + str(number)
    lineNum += 1

print(final)
file.close()