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2 # Team: We Sense
3 # Intermediate Division
4 # ACSL Contest #1
5 # Date of Program: 12/16/19
6 # Grade: 7
7 # Language: Python
8 # Input Data Method: Read from file (inputs.txt)
9
10 def myFunction(inputs):
11     outputs = ["", "", "", "", ""]
12     for x in range(5):
13         try:
14             n, p = inputs[x].split()
15             p = int(p)
16             n_list = list(n)
17             pthdigit = int(n_list[len(n_list) - p])
18             for i in range(len(n_list) - p):
19                 n_list[i] = str(int(n_list[i]) + pthdigit)
20                 if int(n_list[i]) > 9:
21                     n_list[i] = list(n_list[i])[len(n_list[i]) - 1]
22             for j in range(len(n_list) - p + 1, len(n_list)):
23                 n_list[j] = str(abs(int(n_list[j]) - pthdigit))
24             for digit in n_list:
25                 outputs[x] = outputs[x] + digit
26         except:
27             outputs[x] = "ERROR IN FINDING INPUT"
28     return outputs
29
30 def input_reader(filename):
31     try:
32         user_input = open(filename).read()
33         print("--Success in reading input data--\n    Obtained the following
34         inputs:\n\n" + str(user_input) + "\n")
35     except:
36         print("Failure in reading file, please key in inputs:")
37         user_input = str(input("1. ")) + "\n" + str(input("2. ")) + "\n" +
38         str(input("3. ")) + "\n" + str(input("4. ")) + "\n" + str(input("5. "))
39         print()
40     return user_input
41
42 output = myFunction(input_reader("inputs.txt").split("\n"))
43 print("\n\tOutputs:")
44 for i in range(5):
45     print(str(i + 1) + ". " + output[i])

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