9.11. The Accumulator Pattern with Strings

We can also accumulate strings rather than accumulating numbers, as you've seen before. The following program isn't particularly useful for data processing, but we will see more useful things later that accumulate strings.



Look carefully at line 4 in the above program (ac = ac + c + "-" + c + "-"). In words, it says that the new value of ac will be the old value of ac concatenated with the current character, a dash, then the current character and a dash again. We are building the result string character by character.

Take a close look also at the initialization of $_{ac}$. We start with an empty string and then begin adding new characters to the end. Also note that I have given it a different name this time, $_{ac}$ instead of $_{accum}$. There's nothing magical about these names. You could use any valid variable and it would work the same (try substituting x for ac everywhere in the above code).

Check your understanding

seqmut-10-1: What is printed by the following statements:

s = "ball"
r = ""
for item in s:
r = item.upper() + r
print(r)

A. Ball
B. BALL
Check me
Compare me

Yes, the order is reversed due to the order of the concatenation.

Activity: 2 — Multiple Choice (question8_10_1)

