

Lab #09 Flowchart

Many websites ask for phone numbers. The problem is that there are many ways to represent a phone number. Examples include 817-555-1234, 817 555 1234 (c), and (817) 555-1234 x23. Write a Raptor program which inputs a string containing a US phone number in any format and outputs it in the international standard format. The international standard for US phone numbers is -

+1-817-555-1234

Your Raptor program should:

1. Input a string including the number
2. Copy only the digits from the input string into another string
3. If the input string contains more than 10 digits, include only the first 10 digits in the formatted number
4. If the input string contains less than 10 digits replace the missing digits with lower case x.
5. Output the phone number in the international standard format

Hints:

1. In Raptor, a string is just an array of characters.
2. Lesson #9 has an example of working with strings in Raptor.
3. When only digits are input, Raptor assumes it is an integer instead of a string. Your flowchart does not need to properly handle an input like 8175551234, but your C++ version does need to handle that.
4. I recommend passing the digits only string to a procedure which outputs it in the standard format.

Sample Output (inputs in **bold**)

Please enter a phone number: **817-555-1234**

The properly formatted number is +1-817-555-1234

Please enter a phone number: **(817)515 7259 x23**

The properly formatted number is +1-817-515-7259

Please enter a phone number: **214-555-99**

The properly formatted number is +1-214-555-99xx

Please enter a phone number: **800**4444xxx333**

The properly formatted number is +1-800-444-4333