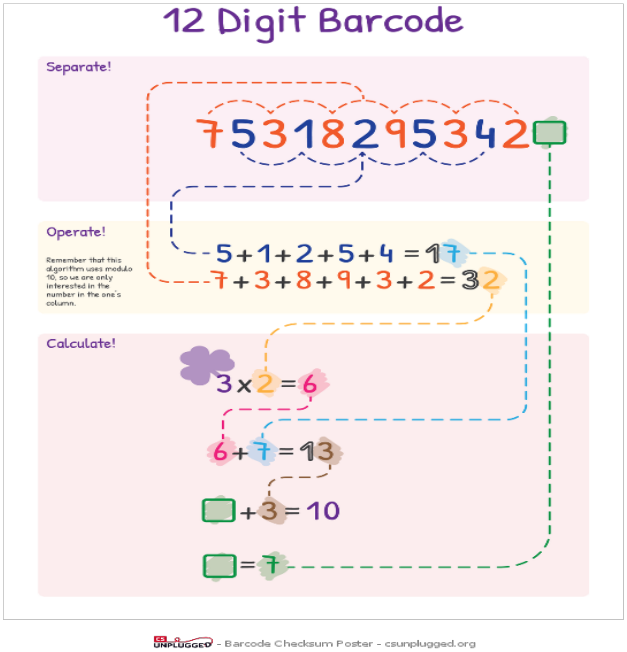
EE393 HW - 02.11.2020
Due: 09.11.2020, 23:59



In this homework, you will develop a python program which reads a series of barcodes from "barcodes.txt" and creates an output file "output.txt" which contains the barcodes and their status as seen in the example output below.

Even : 2 + 6 + 1 + 5 + 0 = 14
Odd: 1 + 3 + 0 + 0 + 7 + 7 = 18
3 x 8 = 24
4 + 4 = 8
10 - 8 = 2 **(CORRECT)**

What to submit:

1) ipynb file which contains **checkBarcode** function which takes a string variable as input and returns true or false, and a driver program which reads in "barcodes.txt" and creates "output.txt". Assume the input file contains one barcode info per line.

Important: Your input file name MUST BE "barcodes.txt" and the output file name MUST BE "output.txt". Otherwise, you'll get up to -100 pts penalty

Below a sample **output.txt:**

123601057072 is a valid 10-digits barcode
1ab601057072 is an invalid 10-digits barcode
172601055072 is an invalid 10-digits barcode
12345 is an invalid 10-digits barcode
753182953427 is a valid 10-digits barcode
<…etc…>

Penalties :

- late submission, cheating and non-working code: up to -100pts
- improper commenting : up to -20pts
- not using a function : up to -50pts
- no driver program : up to -50pts
- improper coding style: up to -10pts (like, variable names and indents)
- improper input/output file names : up to -100pts
- program does not work for some-all of the sample input file : up to -100pts
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