Due date: End of lab on Friday, February 26, 2016

The purpose of this assignment is to get you used to the Pep/8 environment, simple input/output and arithmetic calculations.

A bell distributor receives a shipment of N bells from the foundry.

Unfortunately, one eighth of them are cracked and have to be sent back. As many as possible of these flawed bells are packed into large crates that hold 16 bells, the rest are sent back individually. Costs to transport the flawed bells are as follows

- Crate of 16: $20
- Individual: $2

The good bells are mailed to distributors, As many as possible of the good bells are packed into boxes each of which can hold 8 bells. The remainder are mailed individually. Costs to mail the good bells are as follows

- Box of 8: $18
- Individual: $3

Write a Pep/8 assembly code program that inputs N and outputs a report on the disposition of the bells, see example below.

By the due date turn in your source code and the results of testing your program.

Grading

- Correctness: 50
- Testing: 20
- Readability: 30
Example program run

Enter N: 430

Bells received: 430
Good bells: 377
Bad bells: 53

Number of crates: 3
Number of individual flawed: 5
Number of boxes: 47
Number of individual good: 1

Cost to ship crates: $60
Cost to ship individual flawed: $10
Cost to mail boxes: $846
Cost to mail individual good: $3

Total cost: $919