**Discount Program**

The user enters a sale amount (maximum $999.99) and you must calculate the sale price. There are several things that can provide you with a discount. The discounts are checked in the following order:

* Discount # 1 - You get a $1 discount if the sale amount contains a 2 or a 3. (Applied only once)
  + Example: $123.45 would get a $1 discount because it contains either a 2 or 3. $122.45 is new sale price.
* Discount # 2 - You will get a $0.50 discount for every 0 in the sale amount. Do not count leading zeroes.
  + Example: $104.50 would get two $.50 discounts because of two zeroes in the sale amount. ($103.50)
* Discount #3 - You will get a $0.25 discount if you have more cents than dollars in the sale amount. You get a $0.75 cent discount if you have more dollars than cents and you get $1.85 discount if the cents and dollars are the same.
  + Example: $45.61 gets the $0.25 discount because 61 > 45 ($45.36)
* Discount # 4 - You will get a $2.50 discount if your dollars are a factor of 3.
  + Example: $51.62 gets the discount because 3 is a factor of 51. ($49.12)
* Discount # 5 - You will get a 50% discount of the sale amount at this point if the amount is between $20 and $30 or if the sale amount is between $400 and $500. Make sure the cents round to the nearest cent on this one.
  + Example: $42.12 would not get the discount, but $24.17 would. ($12.09)
* Final Discount - If the number of dollars is a three digit number, remove the second digit.
  + Example: If your sale price was $237.12, you have 237 dollars, which contains 3 digits. You would remove the 3 and your new discounted price is $27.12. Obviously, the number of cents is unchanged.

Be sure to output the final discounted price with two decimal places and a preceding dollar sign. Ex: $27.12

Each time a discount is applied, it is outputted to the screen as seen below:

Example: User enters 464.92

Discount # 1 would be applied because of the 2. New Sale amount is $463.92

Discount # 2 would be applied 0 times because there are no zeroes. Sale amount remains $463.92

Discount # 3 would be $0.75 because you have more dollars (463) than cents (92). ($463.17)

Discount # 4 would not be applied because 463 is not a factor of 3. ($463.17)

Discount # 5 would be applied because the sale amount is between 400 and 500. ($231.59)

Final Discount would be applied since the number of dollars is 3 digits (231). ($21.59)

Final price and output is $21.59

Other examples: 381.81 $39.56 470.07 $22.90