# [Credit](https://cs50.harvard.edu/x/2020/psets/6/credit/" \l "credit)

Implement a program that determines whether a provided credit card number is valid according to Luhn’s algorithm.

$ python credit.py

Number: 378282246310005

AMEX

## [Specification](https://cs50.harvard.edu/x/2020/psets/6/credit/#specification)

* In credit.py in ~/pset6/credit/, write a program that prompts the user for a credit card number and then reports (via print) whether it is a valid American Express, MasterCard, or Visa card number, exactly as you did in [Problem Set 1](https://cs50.harvard.edu/x/2020/psets/1/), except that your program this time should be written (a) in Python and (b) in CS50 IDE.
* So that we can automate some tests of your code, we ask that your program’s last line of output be AMEX\n or MASTERCARD\n or VISA\n or INVALID\n, nothing more, nothing less.
* For simplicity, you may assume that the user’s input will be entirely numeric (i.e., devoid of hyphens, as might be printed on an actual card).
* Best to use get\_int or get\_string from CS50’s library to get users’ input, depending on how you to decide to implement this one.

## [Usage](https://cs50.harvard.edu/x/2020/psets/6/credit/#usage)

Your program should behave per the example below.

$ python credit.py

Number: 378282246310005

AMEX

## [Testing](https://cs50.harvard.edu/x/2020/psets/6/credit/#testing)

No check50 for this problem, but be sure to test your code for each of the following.

* Run your program as python credit.py, and wait for a prompt for input. Type in 378282246310005 and press enter. Your program should output AMEX.
* Run your program as python credit.py, and wait for a prompt for input. Type in 371449635398431 and press enter. Your program should output AMEX.
* Run your program as python credit.py, and wait for a prompt for input. Type in 5555555555554444 and press enter. Your program should output MASTERCARD.
* Run your program as python credit.py, and wait for a prompt for input. Type in 5105105105105100 and press enter. Your program should output MASTERCARD.
* Run your program as python credit.py, and wait for a prompt for input. Type in 4111111111111111 and press enter. Your program should output VISA.
* Run your program as python credit.py, and wait for a prompt for input. Type in 4012888888881881 and press enter. Your program should output VISA.
* Run your program as python credit.py, and wait for a prompt for input. Type in 1234567890 and press enter. Your program should output INVALID.

## [How to Submit](https://cs50.harvard.edu/x/2020/psets/6/credit/#how-to-submit)

Execute the below, logging in with your GitHub username and password when prompted. For security, you’ll see asterisks (\*) instead of the actual characters in your password.

submit50 cs50/problems/2020/x/sentimental/credit