Introduction to Programming - 42

Day 04

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Summary: *This document is the subject of the day 06 of the introduction to programming piscine.*

Contents

Chapter I

Guidelines

- Corrections will take place in the last hour of the day. Each person will correct another person accoring to the peer-corrections model.

- Questions? Ask the neighbor on your right. Next, ask the neighbor on your left.

- Read the examples carefully. The exercises might require things that are not specified in the subject...

- Your reference manual is called Google / "Read the Manual!" / the Internet / ...

Chapter II

Preamble

My name is Jordan Belfort, the year I turned 26, I made 49 million dollars,
which really pissed me off because it was three shy of a million a week.

Jordan Belfort - The Wolf of Wall Street.

Chapter III

Instructions

In this exercise, you will need to use an API to display the bitcoin's course. This is a fictitious market, not true value.

You will need to create an account at http://btc42.42.us.org. Once this is done, you will be able to use the authentication token that will be provided to you to query the API on the current value of the bitcoin.

Your script will simply display the current value of the bitcoin. Obviously, your script should never crash.

```
?> ./get_btc_rate.rb
200
?>
```

It is now time to be rich. Write a script that takes the first parameter "buy" or "sell" and in second parameter the amount of bitcoins you want to exchange. The values of bitcoins will always be integers.

Your script will display the money and bitcoins you have left after the transaction as shown in the example. In case of error, for example if your funds are insufficient to carry out the exchange, you will have to display "Transaction failed".

If the number of arguments is different from 2, or if one of the arguments is inconsistent, display the usage followed by a newline.

```
?> ./make_me_rich.rb
Usage : ./make_me_rich.rb [buy/sell] amount
?> ./make_me_rich.rb buy 10
3000 dollars
10 bitcoins
?> ./make_me_rich.rb sell 1000000
Transaction failed
?>
```

If you have arrived here, you have to find that getting rich is sometimes tiring. So create a bot that will swap for you.

When you run your script, and as long as you do not stop it, your bot will make purchases and sales on your behalf. It will display in the console each action performed and will analyze in real time the trends of the course of the bitcoin.

Know that if the course goes up, it is likely to continue to rise. The reverse is equally true. This is called trends.

So that we can consider this exercise as successful, you will have to reach 42,000 dollars before the time of the rendering. Use the leaderboard.