Stock picker

A company named EndGameAnalytics needs to provide a tool all their agent to help them calculate stock analytics. The fun part is all the company agents are developer so they are well versed with command line tools.

You have to create a command line tool which will take user inputs like start_date, end_date and stock_code(all alphabets) and display following metrics:

- Mean value of the stock between the dates
- Standard Deviation of the stock between the dates
- On what date should the agent buy and and on what date he/she should sell the stocks to gain maximum profit. He is only allowed to buy and sell once in between the selected dates.
- Profit achieved by buying and selling on the dates calculated above. (Assume he buys 100 units of stocks)

To make it better we have to help the agent to make selection faster. To do that let's say he inputs stock_code as "AICIX" but there is not match but there is a very close match with the name "AICIXE" then prompt the user "*Do you mean AICIXE (y/n)*?"

CSV format

StockName	StockDate	StockPrice
AICIXE	20-Jan-2019	20.453
AMBKP	20-Jan-2019	30.500
AICIXE	21-Jan-2019	21.000
AMBKP	22-Jan-2019	29.321
AMBKP	24-Jan-2019	35.453

so on...

To be noted:

- CSV records can have any order and dates can be any order.
- In case of missing date use the previous day stock price.
- keep in mind the code never crashes and all edge cases are handled properly.
- Do not use **pandas and numpy.**

- You can make the output better by adding your extra communication for hand holding agents , showing loaders, adding support for all date formats, etc, etc. Go innovative.
- Test cases are added points.
- Push the code in a public repo on github and share the link with us.

Example:

```
$python stock_picker.py “pathtocsv”
"Welcome Agent! Which stock you need to process?":-   AICIX

"Oops! Do you mean  AICIXE? y or n":-  y

"From which date you want to start":-  20-jan-2019

"Till which date you want to analyze":-  30-Feb-2019

"Here is you result":-  Mean: 20.45, Std: 30.34, Buy date: 21-
Jan-2019, Sell date: 25-                          Jan-2019, Pro
fit: Rs. 450

Do you want to continue? (y or n):-  ..
```