

# Data Engineer Challenge

## General Instructions

1. You must solve this challenge using the programming language of your preference or any of the supported language APIs you want.
2. You will find two CSVs attached to the email of this challenge. While the data isn't big you should build your solution considering it could grow bigger.
3. Follow your best practices of coding. While we don't expect production grade coding, be aware that we will take into consideration the way you structure your code.
4. You should send your final code to the interviewer along with any screenshots or other material that helps to walk through your solution.
5. Your solution will be reviewed and a final technical interview will be scheduled if we consider it good enough. Feedback will still be given if there is a negative review.

## Problem Statement

Company A needs to do a financial analysis on the prices of oil in order to make an important business decision. The 2 CSVs contain historical data of the daily prices of **two types** of Oil. Company A expects an output similar to this example (not actual real values):

Date	Price_Average	Oil_Type
2010-10-01	22.3421	Brent
2010-10-01	23.4564	WTI
2010-10-02	22.2564	Brent
2010-10-02	23.5324	WTI

## Problem Considerations

1. You must perform all necessary steps to produce this output.

2. Only a single output file is expected.
3. Choose an appropriate output format for the data. You will be expected to explain your format choice.
4. The price average is expected to be calculated within a window of the last 7 days. Feel free to review any material explaining how it should be calculated.
5. Business is interested in getting the analysis from the year 2000 until the most recent available data in the CSVs.
6. Keep in mind that even if the provided data isn't big, you should build your solution considering it will grow.

Although it is expected to build the solution in two days, we know that work and life can get in your way so feel free to send your solution within a week, after receiving it.

Remember, you can always reach the interviewer for any questions you might have.