



Relatório do Projeto de LAPR1

Subtítulo adequado ao âmbito/tema do projeto.

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1. **Introdução**

O trabalho descrito neste documento foi-nos proposto no âmbito da cadeira de LAPR1, e tinha o intuito de que os alunos do primeiro ano de Engenharia Informática pudessem pôr em prática os conhecimentos adquiridos nas cadeiras lecionadas ao longo do primeiro semestre.

Posto isto, a tarefa que nos foi dada consistia na elaboração de uma aplicação em linguagem Java que conseguisse analisar séries temporais, bem como estimar os seus valores futuros. Isto é concretizável devido à possibilidade de se analisar uma série temporal através de fórmulas de filtragens (sendo que existem dois tipos de filtração: uma a partir da Média Móvel Simples e outra a partir da Média Exponencialmente Pesada) e de previsões (existindo também dois métodos semelhantes aos da filtragem).

Para executar este projeto, foram-nos disponibilizadas duas semanas focadas no desenvolvimento do trabalho e no esclarecimento de dúvidas através de:

* Oficinas de trabalho, focadas no progresso do projeto em equipa;
* Reuniões com o cliente, onde era possível esclarecer dúvidas com o próprio cliente;
* Aulas Prático-Laboratoriais, nas quais estavam presentes professores especializados em Algoritmia e Programação ou na área das matemáticas que nos iluminaram em relação a fórmulas ou metodologia do trabalho em Java.

Passadas estas semanas, submetemos, no dia 22 de dezembro, o nosso projeto para que fosse avaliado. Posto isto, o que nos restava fazer era elaborar o relatório e preparar a apresentação do trabalho.

1. **Metodologia de Trabalho**

## 2.1 EduScrum no desenvolvimento do Projeto

A metodologia eduScrum, utilizada durante este projeto, consiste na criação de equipas e atribuição de papéis a cada um dos seus membros. Cada elemento possui um importante papel para a plena realização e concretização dos objetivos, ao qual chamamos como um conjunto de Sprint.

Um dos membros, que não faz propriamente partes da equipa, é o Product Owner, que no caso do eduScrum é o professor. Este define o que é necessário ser aprendido, controla o funcionamento das equipas criadas e os seus resultados e por fim, avalia os resultados obtidos, de acordo com critérios de avaliação definidos anteriormente. Consoante a avaliação, o Product Owner é responsável pelas atribuições de classificações e respetivas aprovações ou reprovações.

Outro dos membros é elegido como ScrumMaster e este tem a função de coordenar a equipa, planear o que vai ser feito e definir as tarefas e para quando devem estar terminadas. Este também desempenha a função de líder, garantido que a equipa atinja um ótimo desempenho, fornecendo a máxima ajuda possível. Após essa etapa, as tarefas são subdivididas pelos membros dos grupos para que eles as possam efetuar dentro dos prazos delineados.

No caso do nosso grupo, escolhemos logo o Scrum Master que se manteve durante os dois sprints realizados (desenvolvimento do trabalho das séries temporais e respetivo relatório) que garantiu o bom funcionamento do grupo em que todos os membros comunicaram e realizaram as tarefas propostas, dentro do tempo indicado. O bom desempenho de todos permitiu-nos diminuir ou excluir qualquer tipo de erros que podiam existir, o que mais uma vez levou à otimização do produto final, e por isso é importante um bom planeamento que permita que tudo aconteça como o pretendido.

Esta metodologia é muito benéfica durante a fase de aprendizagem pois permite a obtenção de ferramentas que irão ser úteis em futuros trabalhos, e consequentemente serão facilitados pelos vários aspetos utilizados neste método. Essas ferramentas, tais como a capacidade de discussão em grupo, a marcação de datas de entregas, a organização de todos os componentes do projeto e principalmente a autonomia e a responsabilidade pelo próprio saber serão muito importantes para os anos que vêm, em qualquer área que nos encontremos.

## 2.2 Planeamento e distribuição de tarefas

A ferramenta que mais nos foi útil para a organização e distribuição das tarefas foi o Trello, onde registámos diariamente a evolução do projeto: as etapas concluídas, os aspetos a melhorar ou a corrigir e quais os membros que mais se focaram em cada tarefa. Com a utilização desta plataforma, foi-nos possível implementar *due dates*, isto é, datas limite para fazer determinada tarefa, de forma a conseguirmos orientar-nos tendo em conta o tempo restante para finalizar o trabalho na sua totalidade.

A distribuição das tarefas era feita no final de cada dia de trabalho, ao fazer o balanço da evolução do projeto. Posto isto, ou por via *Messenger* ou discutindo pessoalmente, distribuíamos as tarefas

## 2.3 Reflexão crítica sobre a dinâmica do grupo

Desde o início valorizámos a organização. Para que possamos obter resultados o mais positivos possível, os objetivos têm de estar bem definidos dentro do grupo. Por isso, achámos mais eficiente fazer um registo diário de todos os progressos feitos. Este foi um passo fundamental para criar boas práticas de organização no desenrolar do projeto.

Passando à comunicação, podemos afirmar ter sido um grupo em que não faltou boa disposição, empenho e cooperação entre todos os membros. Ao longo do projeto existiram, obviamente, momentos de maiores dificuldades que conseguimos ultrapassar devido à fácil comunicação entre nós, elementos da equipa.

Existem, no entanto, aspetos a serem melhorados tanto a nível individual como enquanto membros de uma equipa composta por pessoas com metodologias de trabalho e formas de pensar diferentes.

Resumindo: analisando o desenrolar do projeto na sua globalidade, achamos que a dinâmica e as relações entre os elementos do grupo foram bastante positivas, o que proporcionou um bom ambiente de trabalho.

1. **Análise de Séries Temporais**

Como foi referido anteriormente, o nosso projeto consistia em criar uma aplicação que, com base em dados estatísticos pudesse esboçar uma série temporal e através dela, fazer uma análise da mesma.

A análise iria consistir em utilizar técnicas de suavização e filtragem, para uma melhor compreensão, removendo ruídos e identificar possíveis tendências que a série poderia tomar. Também possível prever acontecimentos seguintes utilizando técnicas de previsão onde, através de um modelo matemático, capture o processo que gerou a série temporal e assim permita prever valores futuros da série utilizando dados anteriores.

Nada disto se tornaria possível se não houvesse um estudo e uma pesquisa relacionada com o tema, no intuito de recolher a maior e melhor quantidade de informação para desenvolver o nosso projeto. Deste forma, iremos tratar toda a teoria e proporcionar uma melhor compreensão sobre o tema abordado neste tópico.

## 3.1. Séries Temporais

Uma série temporal é uma sequência de observações ordenada cronologicamente que, em geral, são recolhidos em intervalos regulares. A análise de séries temporais pode ser aplicada a qualquer variável que muda ao longo do tempo e, de um modo geral, as observações mais próximas têm valores mais próximos e correlacionados que aqueles valores mais distantes (Hyndman & Athanasopoulos, 2014; SEMATECH, 2019).

A análise de séries temporais é de grande utilidade em vários domínios como a Música, Química, Energia, entre outros, sendo que do seu processamento podem resultar ganhos significativos para o conhecimento do negócio ou planeamento de atividades.

Em seguida, seguem-se exemplos de séries temporais:

![Uma imagem com vedação

Descrição gerada automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RD8RXhpZgAATU0AKgAAAAgABAE7AAIAAAARAAAISodpAAQAAAABAAAIXJydAAEAAAAgAAAQ1OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEbDoWJpbyBGZXJuYW5kZXMAAAAFkAMAAgAAABQAABCqkAQAAgAAABQAABC+kpEAAgAAAAMyOQAAkpIAAgAAAAMyOQAA6hwABwAACAwAAAieAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figura 1 - Ruído Branco Gaussiano

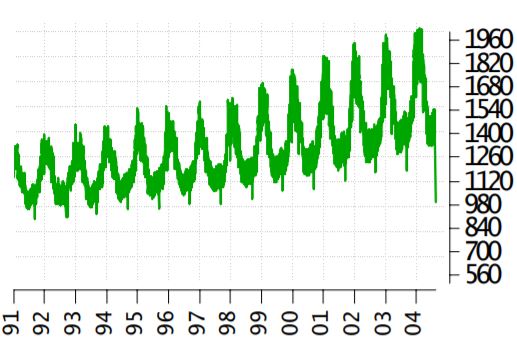


Figura 2 - Consumo Energético

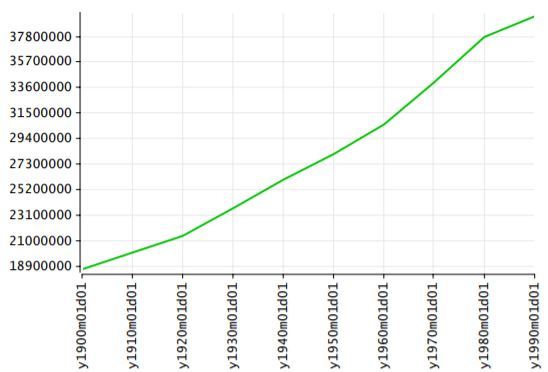


Figura 3 - População de Espanha

Ao analisar uma série temporal, espera-se que nesta exista uma causa relacionada com o tempo, que influenciou os dados e que possam continuar a influenciá-los futuramente.

## 3.2. Objetivo das séries temporais

Segundo MORETTIN e TOLOI (1981) e CHATFIELD (2003), os objetivos de analisar uma série temporal são os seguintes:

1. Descrição: Determinar as propriedades de uma série como, por exemplo, o padrão de tendência, a existência de alterações estruturais e sazonalidades. Antes de modelar ou prever uma determinada série de tempo, é necessário ter uma ideia preliminar dos dados, para obter e descrever algumas das suas principais propriedades. O que terá uma enorme contribuição no processo de modelação.
2. Explicitação ou Modelação: Encontrar um modelo estatístico adequado que permita explicar o comportamento da série no período observado.
3. Previsão: Estimar valores futuros de uma Série Temporal, com base em valores anteriores.
4. Controlo de processos: Boas previsões permitem ao estatístico, tomar medidas de forma a controlar um determinado processo.

## 3.3. Técnicas para análise de séries temporais

Entre as técnicas de filtragem mais utilizadas e simples estão a Média Móvel Simples e a Média Móvel Exponencialmente Pesada (SEMATECH, 2019), ambas utilizadas para efetuar os métodos de suavização implementados na nossa aplicação.

### **3.3.1. Média Móvel Simples**

A Média Móvel Simples (Simple Moving Average) é uma média móvel[[1]](#footnote-1) aritmética calculada adicionando preços recentes e, em seguida, dividindo-os pelo número de períodos de tempo na média de cálculo.

As médias de curto prazo respondem rapidamente a mudanças no preço do subjacente, enquanto as médias de longo prazo demoram a reagir.

A Média Móvel Simples é um indicador técnico para determinar se um preço do ativo continuará ou reverterá uma tendência e é definida através da equação:

onde:

xi – termos que representam a série original;

yi – série resultante da aplicação da filtragem;

n – ordem da média móvel.

A Média Móvel Simples é personalizável na medida em que pode ser calculada por um número diferente de períodos de tempo.

Quanto maior a ordem da média móvel, mais suave a média móvel simples. Uma média móvel de curto prazo é mais volátil, mas a sua leitura está mais próxima dos dados de origem.

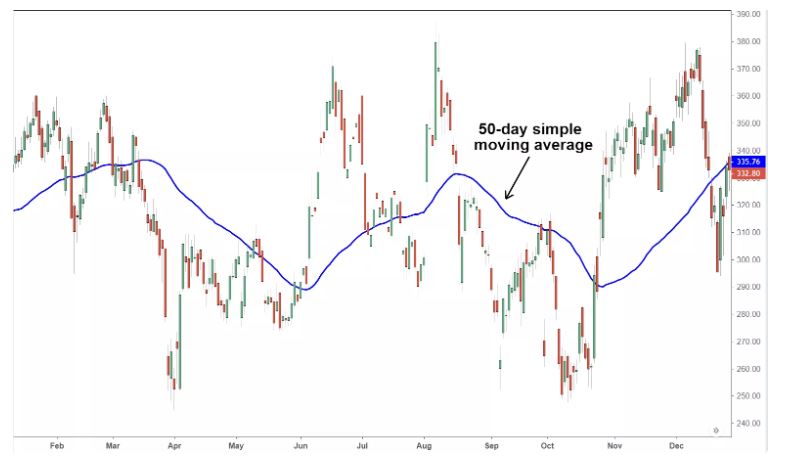


Figura 4 - Exemplo da aplicação da Média Móvel Simples

### **3.3.2. Média Móvel Exponencialmente Pesada**

Uma média móvel exponencial (Exponencial Moving Average) é um tipo de média móvel que coloca maior peso e significância nos pontos de dados mais recentes. A média móvel exponencial também é referida como média móvel exponencialmente ponderada.

A média móvel exponencialmente ponderada reage mais significativamente a mudanças recentes de preços do que uma média móvel simples (Simple Moving Average), que aplica um peso igual a todas as observações no período.

Como todas as médias móveis, esse indicador técnico é usado para produzir sinais de compra e venda com base em cruzamentos e divergências em relação à média histórica e é definida através da equação:

onde:

xi – termos que representam a série original;

yi – série resultante da aplicação da filtragem;

α – constante que varia entre ]0,1].

Todas as médias móveis comummente usadas na análise técnica são, por sua própria natureza, indicadores de atraso[[2]](#footnote-2), atrasados. Consequentemente, as conclusões tiradas da aplicação de uma média móvel a um gráfico de mercado específico devem ser para confirmar uma movimentação do mercado ou para indicar a sua força.

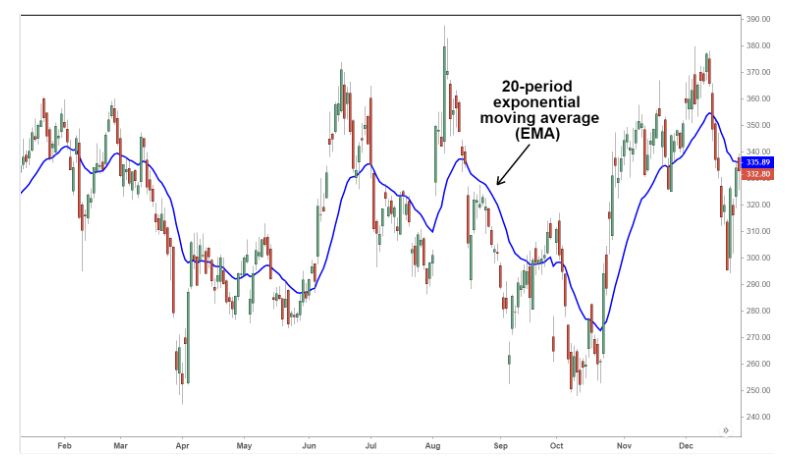


Figura 5 - Exemplo da aplicação da Média Móvel Exponencialmente Pesada

## 3.4. Previsão

Previsão é um método usado extensivamente em análise de séries temporais para predizer uma variável de resposta como lucro mensal, desempenho dos estoques ou índices de desemprego para um período de tempo especificado. Previsões são baseadas em padrões nos dados existentes.

De forma a responder uma das tarefas propostas do enunciado que nos foi colocado, utilizamos dois métodos de previsão que foram mencionados anteriormente, contudo, com algumas alterações nas fórmulas:

## 3.4.1. Média Móvel Simples

onde:

xi – termos que representam a série original;

yi + 1 – representa uma previsão utilizando dados anteriores;

n – ordem da média móvel.

## 3.4.2. Média Móvel Exponencialmente Pesada

onde:

xi – termos que representam a série original;

yi+1 - representa uma previsão utilizando dados anteriores;

α - constante que toma valores no intervalo ]0, 1].

1. **Desenvolvimento e Implementação da Aplicação**

Para o desenvolvimento da aplicação, empregámos o conceito de modularização no nosso código, de modo a otimizá-lo e a facilitar a sua leitura e interpretação.

A forma como a aplicação está agrupada bem como a ordem de execução de cada método (através da representação por setas) pode ser evidenciada pelos diagramas presentes no Anexo B.

A organização do código foi feita em torno de 4 requisitos fundamentais: a definição da resolução temporal, a ordenação, a filtragem e previsão e, por último, o esboço de gráficos.

## Definição da Resolução Temporal

O método de definição da resolução temporal baseou-se em definir à *priori* os intervalos de tempo relevantes (24 horas, número de dias num dado mês ou número de dias num dado ano para os períodos diários, mensais ou anuais, respetivamente).

Para cada intervalo de tempo, é efetuada a soma de todos os valores dentro do intervalo, ficando essa soma alocada à primeira posição do array dentro desse período, ou seja, a posição correspondente à primeira hora de cada manhã, tarde, noite, madrugada, dia, mês ou ano, conforme relevante. Este processo é realizado através dos métodos dayPeriod, dailyPeriod, monthlyPeriod e annualPeriod.

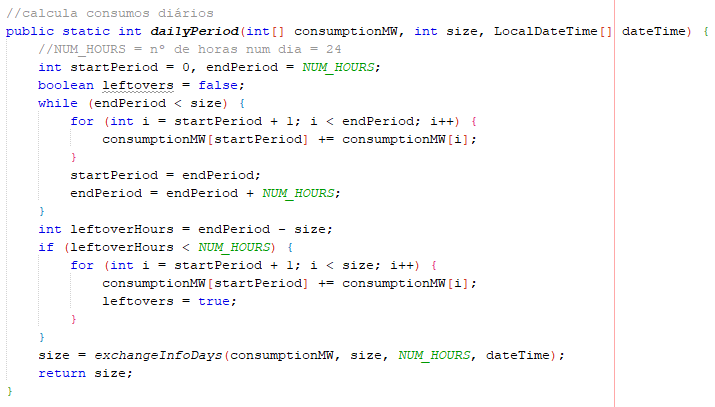


Figura 6 – Algoritmo para somar consumos da resolução temporal diária

De seguida, os valores das somas substituem as primeiras posições do array, de forma a ficarem numa disposição sequencial e simplificarem processos posteriores. Tal é executado através dos métodos exchangeInfoDayPeriods, exchangeInfoDays e exchangeInfoMonthsYears.

## Ordenação

No que diz respeito ao 2º pilar – a ordenação – foram colocadas várias opções para a implementação do método de ordenação dos dados recolhidos, sendo eles Insertion Sort, Bubble Sort e Merge Sort.

O método a ser escolhido teria de ser o mais eficaz, ou seja, o que demoraria menos tempo a executar e a organizar a informação que posteriormente tinha sido escolhida. No entanto, para saber qual o mais rápido, necessitaríamos de um teste para o comprovar.

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Descrição gerada automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RD8RXhpZgAATU0AKgAAAAgABAE7AAIAAAARAAAISodpAAQAAAABAAAIXJydAAEAAAAgAAAQ1OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEbDoWJpbyBGZXJuYW5kZXMAAAAFkAMAAgAAABQAABCqkAQAAgAAABQAABC+kpEAAgAAAAM4MAAAkpIAAgAAAAM4MAAA6hwABwAACAwAAAieAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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RvoBbooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDmN39t/ETaPmtPD8OSexuplwPxSLP/f4Ua239seMNJ0NfmgtP+Jpe46YQ4gQ/WT5x/1xNbGkaPBo0NwkEksrXNzLdSyzEF3d2zyQBwBhR6KqjtRY6PBYapqOoJJLLcahIjyNKQdiogVUXAGFGCcc8ux70108vz/4D/IH1/rT/hvxZzuvaVrGja9e+LPDs2nzmS1jjvbLUsxh44t7Axzrnyz8xyGVlPX5eTUXizVY9c+Ds2qwxSQx31nDcLFKMOgdkbB9xmt6/wDCPhvVNR/tDU/D2lXl7x/pNxZRyScdPmKk8dql1fw1oXiBom17RdO1MwgiI3tok3l5xnG4HGcDp6VNvda/rr/XkKSv/X9f8Ew/HmuanpkmjWGkLdiTVLpomlshb+eoWNn2x/aGEW47f4s8BsAnkY974j8WaN4Lnk1GzvYrl9ThsrS4ufsf2poZCo8xgj+QJAzMq5KqTtJHY9ofDWhHQxop0XTjpQORYG0TyB827/V42/e56deaW18OaJY6TNpVlo2n2+nT7vNs4rVEhk3DDbkAwcjg5HNFt/67f5fiPX+v61OEvtb8ZaN4T165uI9QtxbpbtYXmsJZvMXaTbIrJbMUKAbcHCn5iM8A10GkXGraf46fRb7WJdZhl077Y7Swwxm0kEm0KPLUHY4J2htxHln5jzUmq/D7QrrwrqOh6Np2n6NFqGzzmtLFFV9rA/Mq7d3Qjn1rb0rQ9J0G2e30PS7PTYHfe0VnbpCrNjGSFABOAOfamviv/WwtS9XC7YPEfi/S4PD1tFDpPhu8lmuLyJQkbzmN0MEQA+bBkJdugI28tu291WDF4F8IwXyXsHhbRY7qOQSpOmnRCRXByGDBcg55z1oW92Pob1cP4wv9d0rVZL+a41a18PW9usj3GjpaOYsEmVp1nVnKgbSPKBOA2RnFdxWVe+FfD2o6ompahoOmXd/GVKXU9nG8q7eVw5GRjtzxR1TDocr4m1/W5/GC6JoqausKael4JNIFj5spZ2Xn7WwXYu0fdBOWGSOAZrjV/Ectp4X0vUp00DUdVaRby4RYnkQxqWCRgl4w74zzvAAbGeo6nVvD+ja/HHHrukWOppES0a3lskwQnqQGBxRNoGj3Oiro9xpNjLpiqqrZSWyNCApyoCEbcDAxxxS6B1uYOv3OpaLbaDo8WtXDS6pqH2STVrmODzo18uSQbQIxFuOwIuUxz0Jrnta8Q+ItGt9W0yy1o3c9nqOmww6lc20TMPtEyq8UixhVYhSDwEO2Rec/NXer4c0NdDOiro2njSj1sBap5B+bd/q8bevPTrzTrfw/o1ppkenWmk2MFjFIJY7WO2RYkcNuDBAMAhgDnGc81aaUr+f+QPbT+tzjbrxDrHheTxbBPqUmrjStMt763mvoolZGkMysG8pUBRfKDdN33uemG6fbzWfxi023u/ElxrVz/YN1I63C26mEGa3wQsUaEKxBxu3fd4PBrvfsVr9omn+zQ+dPGsUsnljdIi5wrHqQNzYB/vH1qrpvh3RdGCjR9HsLAIGCi1tUi27tu7G0DrtXPrtHoKE0pX8v0a/UHqrf10OX0HUNbtPFMVp4tutWiuLxplt4tlo2nzFctiJo189cIMjzSOh5Y13NZOl+FPDuiXj3ei6DpmnXLqUea0s44nZSQSCygEjIBx7VrVPRIOrYUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHDrY64fH0mlnxlrP2RbFbwJ5FlncZWXbn7PnbgfX3q9q92D8QNBt7hNctVVphBJb3ES2V2xiJKypvMjbQpK5UAHua110fHit9a8/71ktp5Ozphy+7dn3xjFZGu+HvEWp+IbHULDXNLtYdPkaS3hm0qSZstGUbe4uFDfeJGFGOOvdRukr+f5v8AQHu2vL8lf9SPU/iLYabrtxpS6Vq15Pb3MdrI1tAhTzZIvMjUFnGdwyMjhSMttXDGdPHNtc2Omy6XpWo6jdahAbhLG3ESyxRg4ZnLyLGMMQv3zk9MgEiN/BJk8Q3OqtqAzcalb35jEHTyoPK2Z3d+ue3TB61k3vwrt7iz0gCXS7y5023e2/4m+kreQSIzbsiMupVwejB+hIIORha/16f5/gN2vp2/Hr+BrQ+KDqmveH/7NleOzvVu1uYJYwHWSLaCjdSCrbgcHB9xiq0njT+xtU8RPrJuJ7S11S0srWK3gDuhmhiwMDlsu5Pc88elWP8AhDZ7bS9JGj3GmaVqOlySNE1ppey0YSAh1NuJAQDkHiQHcAc9RUcvgWS7sW+26osmoXGr22qXVxHbbUdoGj2xpGXJVdsaryzHOTz0qkve12/4Kv8AhcSdkzS03xQdRGpRf2JqVrqGnorvp85g82QMCUKsspj52sOXGCOcVT8IX4PhW8urSHXL2WO9ug9rqM8MlysiyMGiVt/l7QQQvz4AxzWgdEuoNY1fVNPvYY7m/ggijE9uZEhMe/5iA6lgd/TK9OtVfCPh7WPDy3kWpatY38FzczXQW3097dlklkLtyZnBXLEAYB9zR1+QfZ87/hqZ/wAP/FOsa/p7/wBraNqMeLu8T7bMbURgJcSKseI5S25QAuduCVJyep7Sud8P+H9S8P3VxBFqdrNo8lxPcR2zWTCdGlkMjDzvN2kBmbA8sHGBnjJ0Lex1SPxHeXlxq/nabNEi2+nfZVX7O4+8/mD5m3eh6U203oHVnHR+IrhvHE+neJfEd94dn+3GPTbAW0KWuoQrs2lZ5Ym8x23gFUdWHQKMbjHq+vXh+IWr6bNr/iKwtbWC2aCLRtGF4uXDFi7fZpSOgxkjvW5rfhnW/Ecc2n6trOn/ANjTSqzwW+lulxsVwyr5rTsoOVGWEfrjacEOuPDeuweKtR1jQta062XUI4UkgvdMkuCvlhgCGWePruPUGpW0f66f139Bvd2G391qmseMJNA0zVZtKt7Gyiurq6ghjeeVpWdY0XzEZFX925b5Sc7QCOctvpdYn8QWHhi21ia2K2Ml3danHBCZ5ArqiKAymME5JY7McfKFzxa1Tw3fya+mueH9Ug0/UGt1tboXNmbiC4jUsy5QOjBlZmwQ/RiCDxhL7w5qc91YarZavBBrdrC8EtxLZGSCeNyGZDEJFYAMoK/PkYwS2Tl9v672/G3/AARO+tvL9L/qcpqHifxPamDSrS8+0ahY66bOWYwRg38ItGuFUgDCsw2qSoXkZAAOKn1TxRqWoapNBo+sSWtncXmmR289vFEzJFOrFyu9GBJwOoOO1btr4I8mbT7qbUDNew6m+qXk/k4FzK0LRYC7vkUKygDLEBACSctWfJ8ObqK5v59N1qKF5tQt721WeyMqW4iLERkCRSy5c4wVwMDnGaUvs+sb/hf79f6Yp3a93s//AG636f0gn1XxLoV9rOi2858Q3q6U2oaU91HHHI7qdjRSeWERhu2kEBTgkE8Zq14H1e21SS4CeLNR1a8hRVutO1G1htZbRjg5MKwxyL1wNxIPYnrV2y8OalbXN7q11q1vda9cwLbx3BsittbxqSQqwiTdgk5bMhJOOQAADTvDeonxNFrviHU7W9u7a2ktbdbGya1jVHZWcsGkkZjlFx8wA54JOQ4+f9b2/Cyf33B+X9bfrd/odJWBp/isarrE9ppuj6hcWtvcvazairQCGOROHUqZRLwePuc9Rkc1b0+w1W31zU7q/wBZ+2WFyYzZWP2VI/sYC4ceYOZNx556dBWFN4HuLzxnDr13caRE8NwJlmsdKaC8kUAqsclx5zb0xgMCmCB0HGDqhvZ23/r+v0JNWtzZ/Ejw/cW91fL9uNwlxCb2YwOFhyv7kt5YIIzkKDnmr+qeKlsNSlsbLSNR1ee3iE10LFYsW6tnbuMkiZJwxCrubA6cjNPWvDviPUfEtlqdjrml20VgztbQTaTJK3zpsbe4uF3dyMKuPeqPiT4cQa34kk1qKPQpp54Uimj1rRVv1GzO1oz5iMnBIIyQcDgEHM69P60/zEt3c17jxjZ+Xp50azvNbl1C3+1QQ2IjDeRx+8YyuiqMsBgnJJ4BwcV5vH+nLDphtbHUbyfU2migtbeBTIssRxJG+WCoQcgknbwfmxgmjr/w3tdYbSp4odDE+n2ptBBfaMtzZmM4PyQ71MZBXjD8AkHPBFLUPDWradrHg+28Px6XZPZm8Ms9ro7rZxbk/wCeKyjZu95OTk89Kp/r/X4fiF3/AF/Xc273xoi+BdY1y1s5obrTUmjeyu9qyRzp0RtpZeSVIIJBDAg81d0rQrnS/CxsrW/I1OZTJPqEsfmF52+/IVJA69F6ABRjAxVT/hDI5fCes6TdXjS3WtebJeXkcYjzK6BdyLztChVABJOFGSTkmW1bXda8FzWrytoeuiNrZ7lrfzUjlHBljUkB1P3l57gEZBFD2duy/wCDb5/oPqr7Xf8AwPw/UqeGb/UF8Ya3odxq02tWthDbyfa7iOJZIpn37oWMSIpwqo2NuRv5JBGF8Nl9H8Xax4aEm+yjhi1CwRmyYI5WdXiH+yHjLD0D7RgKKm8H+G9V8MWi2NxqGmXFkqsdttp0sM0kpOWkeR7iTex5JJGSTnPaneHbW5u9e1TxFf2slobtY7W0hlGJFt4ixDMv8JZndsdQu3ODkB9fl/X42+XzDo/6/rS/zNS21b7Trt7pn2C+i+xpG/2uWHbBPvB4jfPzFccjHGRWhXLaPe67ffEDWGb7QPDkNvHDAt1a+SftQJ8wx5UM6bdvzHKk/dJwa6ml0TDq0FFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFVdR1Ow0exe91e+trG1jIDz3UyxRrk4GWYgDJOKtU2RFkjZHAZWBDBhkEUnogFVldA6MGVhkEHIIpa5j4eOw8DaZaiJvJtLaOCG5GPLukVQBJGM7gvbDKp46EYJ6eqdr6AFFFFIAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKK52e4v7Dx9ZQtqUk1hqcE2LSaOMCGSMIR5bKoY5BckMW9RgDFAHRUUUUAFVNUfUU02U6Nb2txeYAjju52hjPPJLKjngc4xz0461bopNXVgMzw3pJ0HwxpuktMJ2sraOBpQu0OVUAnGTjPpmtOiiqbbd2AUUUUgCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigArktVuNP1zx5p2iNJDfpZwy3F9Z5EiQv+7MJlXoDklkDc8bh0yOtopdQ6BRRRTAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAP/9k=)

Figura 7 - Método para cronometrar o tempo de execução

Atendendo ao método que nos foi disponibilizado pelo professor de APROG, obtivemos diferentes tempos de execução para cada método de ordenação, sendo eles:

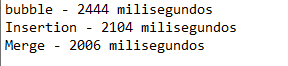


Figura 8 - Tempo de execução dos diferentes métodos de ordenação

Como podemos constatar, o Merge Sort é sem dúvida o mais rápido a organizar grandes quantidades de informação, que é o caso do nosso projeto.

## Filtragem e Previsão

Paralelamente, desenvolveu-se a metodologia de filtragem e previsão de consumos energéticos, as quais assentaram no desenvolvimento dos módulos MediaMovelSimples e MediaMovelPesada, capazes de ser reutilizados para qualquer uma das metodologias e cuja função era efetuar os cálculos subjacentes às fórmulas indicadas anteriormente neste relatório e armazenar os valores resultantes em novos arrays, como se pode ver abaixo.

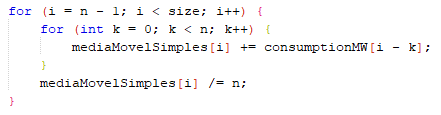


Figura 9 – Método de cálculo da média movel simples

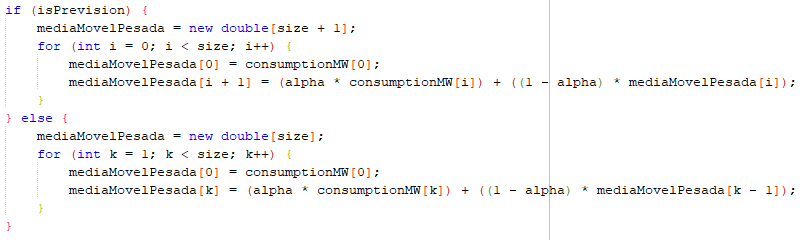


Figura 10 – Método de cálculo da média móvel pesada

No caso particular dos métodos de previsão, exigiu-se ainda um esforço adicional no sentido de validar datas introduzidas pelo utilizador, certificando que as ditas datas existiam e eram aceitáveis tendo em conta o intervalo no qual se insere a série temporal em análise.

## Gravação dos gráficos em PNG

A nova tarefa consistia na implementação de um método que conseguisse gravar os esboços dos gráficos das séries temporais escolhidas pelo utilizador em ficheiro PNG. O facto desta tarefa se ter tornado uma dificuldade para o nosso projeto, foi encontrar modo de implementar o método de gravação do gráfico, até porque, nunca tínhamos tido contacto com a ferramenta sugerida nem com as suas funcionalidades.

Pesquisa foi essencial para o sucesso desta tarefa e na primeira tentativa de solucionar o nosso problema, deparamo-nos com um código que o conseguia solucionar, mas apenas em sistemas operativos como IOS e Linux, Windows não permitia executar o comando.

![Uma imagem com texto

Descrição gerada automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RD8RXhpZgAATU0AKgAAAAgABAE7AAIAAAARAAAISodpAAQAAAABAAAIXJydAAEAAAAgAAAQ1OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEbDoWJpbyBGZXJuYW5kZXMAAAAFkAMAAgAAABQAABCqkAQAAgAAABQAABC+kpEAAgAAAAM4NQAAkpIAAgAAAAM4NQAA6hwABwAACAwAAAieAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figura 11 - Método inicial de gravação de gráficos em PNG

Como o primeiro método se vinha a tornar num fracasso, decidimos colocar questões ao professor de APROG e continuar a nossa pesquisa até encontrar a devida solução.

![Uma imagem com texto

Descrição gerada automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RD8RXhpZgAATU0AKgAAAAgABAE7AAIAAAARAAAISodpAAQAAAABAAAIXJydAAEAAAAgAAAQ1OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEbDoWJpbyBGZXJuYW5kZXMAAAAFkAMAAgAAABQAABCqkAQAAgAAABQAABC+kpEAAgAAAAM2MAAAkpIAAgAAAAM2MAAA6hwABwAACAwAAAieAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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iigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKjubiK0tZbm5kWKGFDJI7HAVQMkn8KTaSuwWuiOYvry61T4l2Gk2c00VnpVs19fmN2USPJlIYjg8jiRyp/urTvH1/dx6Ra6PpE0kOo63dJZQyxMVaFD80sgI5BWNXII6HbUfw6t5ptCn8Q38ZS98Q3B1B1YfNHEQFhjP+7EqfiTUWlZ8Q/E3U9VbDWegxf2ZaHggzuFkuHHuB5afgw9adtVF+r/y/KIX3kvl/X/kxa8Za3qmi2OnWHhmO3n1e/mMNst4HkQKkbSOzYYE/KmM56sKZJ8QdKs/Ael+Kb5Zzaah9nXbbxGVkeUhcbRycMcEDJ44BqtqnhnWNc+Io1L+0b3RrHTbDyLKe0+zu00krZmysiSAABIx90Hrg4ri9X0bV/CHhV9LuornULO28WWNxpkpeHzLmOSdHZAAVVWEhcchF5GMCiOrs+rX52/Fag9Nuif5X/wCAei2HjO3urm7tb7S9Q0q8trT7aLW9WLfLDyN6eW7LwRggkEEjIGRVHSfiVpurxaXdR6XqtrpmqukVpqN1CiQvKy5CY37wSQVDFdpI4Y5BNSbT9T1XXNS8TanpsukwW2jTWFra3MsbzSFyHeRvKZkUfIoA3EnknHfD8LWmreK/APgfTf7GudP0+wjsb2e+upoSs6wqrIsSRuzfMwU5cJgA9T8tOOr18vxb/RX9fuFLTbz/ACX6u39XOv1Px7Z6fdagkGl6nqNvpRA1G8s442itDtDEEM6s5VSGIjVyAfXinan480+w1XTtNtbK/wBUu9TtDd2cdjErCZAVB+ZmVV4bdliq4HXJAPJv4Mn03WtejvdC8Qa1ZapeSXkUuka81sm2UfPFJC1zEMgg8gMCpGSMYrobPw3NY+PtEu7Cxe30ix0CWxAeYM0LGSEpGcsWY7UPPI460o62v/Wjb/GyX6jlpe39ar9L3LkHj3SZfDLazJFdwBbtrE2UkQNx9pDmPyQqkgsWGBglcHOcZNZOi67qWofFu+gvrLUtKtotDikWyvZomXd58gMgEUjqMgYzkH5fTFZEfg/X7XTbm6TT/NurTxjNrUFoJ4w11bsSvysW2hirkgMRyMHFb2jWGvXXxIvfEOpaULC0m0mO0t4ZJ0aRWWVmxJsLAMdxPy7gBjknICXR/wBfD/m7BLRNf18X+SuaWgeMY/ERgmstF1RNNut32XUpY4vJnAzghVkMiAgEguijp0JAPR15ppXhvUbHxZpsnhjQ9U8MWMc8smpwy6hFJYXCMMlYoFkfaxfBDBIsDdnk7a9Lqun9f1/WwdThvHvivWdB1bQLbStJ1CaK61SKGaWE2pW5QxyEwr5kgYNlQckKOPvdjF498R3ll4O07VJbbUtEK61ZLNCzK0xi89QwxA77gwyNoJJ6YrV8d6VqOoWmkXmj2v2240nVYb42okVGmRQyMqliF3bXJGSBx1qt4otNV8UeHtLNvo11Zzw61Z3EltdSwb1ijnVmfKSMpGATgNn2pR3X+Jfd7v8AwQl/7a/v1/4BpaT4vttS1S7067sL3SLy1t1umivxGN0DFgJAUdhjKkEEhh3AqnY/EKwvZ9PZtN1O10/VZPL0/U7iJBBdMeVAAcyJuAJUuig/iM0tY8J3+r/ETVblozFpt94YOmC6DjKytK5I253cKwOcY96yPDnhHyY9HsPEHhbxFJPp0kX+mf8ACQtPYiSL7syxtdBtvAIXyuM4xRHW1/61af4Jff2CWl7f1on+bf3dz1Cuc1zxpaaJ4gtNEGn6hqGpXsDz28FnErbwrKrAszKq43ZyxC4HXJAPR1594gv7jT/jRpMtppN5qrnQrpTDZvCrqPPh+Y+bIi44x1zz0oWskvX8mw+y36fmjpdP8VW+p6HcahaWV681tM1tNp/lr9ojmVtpjIDbQckfNu24Ibdt5pmkeLIdS1K802702+0rULOFbh7W9ERZ4myA6tG7qRlSPvZBHI6Vylx4b8VW/hHUp7BXh1PWNZXUL6zs7pUmS2OxWhjmJCiTy0XLAqM7gG6MX+FfDeqW3jrU9Wk0nULCwuNJS1hXUtXN9OXWRiQxaSTZ14Cuy45yCSAm3b5fja/56f1cen4/he35a/1Y0dN+KWl6pZ6VqEGk6vHpeqTx20WoTQRpEkznARgX3/e+XcqlMn73WtTX/F3/AAj4uZp9B1a6sLNN91fW6ReXCuMsdryK7hVOSUVh1HJBAT4faVe6H8PNE0zVIfIvLW0SOaPcG2sOoypIP4GuI8VeG/FesHxTaXOm6tqMt75kelT2+uG0sYYDFhVeJZVLPndndGwYkAsF5Dno2l5/1/X6akVe1/6/r+vLa1vxRLYfFTRUtBf6hbXuiXDw2Nl8wnk82Iq+GZUXC7vncqADjOSAdmPx7pTeHpdTkhvIZYrs2Lae8QNz9qBwIQqkqWPBBDFcHOQMkYz6brWj+KfDurw6FdanFa6C+n3EVnNAHilLQsM+bIgI+RuQTVKbwZrgsDrqWsUmrjxD/bo0wTLgp5Yi8nzD8vmeWM5zt38Zx81VZLTpr/6V/ld/d85u2r9dP/Sf89Dr9I8Uxarq1xpF5pt/pGoxQif7LfCPdJETjejRO6kA8HDZBxkDIrG8IRPYfELxXpcd5fz2dvFZPDHeX01z5ZdXLbTKzEZIHftU1jY6rq/jhPE2oaVcaXBp9hLZ21nPLC887SMju58t2RV+RVHz5JznaAM0/Dz65H8RNa1K88J6paWerJaxxyyz2beT5SuGLhJ2OPmGNoY+1T27/wDBdv0B9f67f8E29f8AF3/CPi5mn0HVrqws033V9bpF5cK4yx2vIruFU5JRWHUckEDfhmjuLeOaBw8Uih0YdGBGQa8o8VeG/FesHxTaXOm6tqMt75kelT2+uG0sYYDFhVeJZVLPndndGwYkAsF5HpmiW8tpoGn21wuyaG1jjkXIOGCgEZHvRHWN35fjf8v6uOWjVvP9PzMnx9reoeH/AAVql9pNjdXNzFZzOk1v5OLYrGSJGErrlQRnADH2NHhrxJd3+gxXet6RfaXHHZpPLeXslt5cnygsw8qViB1PIXj8q0vEeltrfhbVdKjcI99Zy26s3RS6FQT+dc5ZWeq+Ivh7ceGNb0S80Wd9K+xvcySwSxM5j2EpskZiO/zKvHvU3aUrb6W/H/gFaNxv53/D/glq08f2lxc2H2jSNVsrDU5PKsdSuYo1huGP3OA5kTeOV8xFzwOpArq686fTvEniPRtE8P6noMmkpYXFtNe3zXMLwyi3dWAhCMXO9lU/OqYGc84B9FrRpK9u/wCGn/BM029+34nDePfFes6Dq2gW2laTqE0V1qkUM0sJtStyhjkJhXzJAwbKg5IUcfe7GLx74jvLLwdp2qS22paIV1qyWaFmVpjF56hhiB33BhkbQST0xWr470rUdQtNIvNHtfttxpOqw3xtRIqNMihkZVLELu2uSMkDjrVbxRaar4o8PaWbfRrqznh1qzuJLa6lg3rFHOrM+UkZSMAnAbPtUx3X+Jfd7v8AwSpf+2v79f8AgGlpPi+21LVLvTruwvdIvLW3W6aK/EY3QMWAkBR2GMqQQSGHcCqdj8QrC9n09m03U7XT9Vk8vT9TuIkEF0x5UABzIm4AlS6KD+IzS1jwnf6v8RNVuWjMWm33hg6YLoOMrK0rkjbndwrA5xj3rI8OeEfJj0ew8QeFvEUk+nSRf6Z/wkLT2Iki+7MsbXQbbwCF8rjOMUR1tf8ArVp/gl9/YJaXt/Wif5t/d3PUKw9b8UQ6RqVppkGn3uq6ldo8sdnZCPeI0wGkZpHRAoLKOWySRgHnG5XmHjM31x8XdNTR21Zrmz0aV3XRPsqzxrJKoHmG6HlMh2HAB3AqTjHNLql/WzY+jf8AW5tw/FDS28FXHii90zVbCxtrwWckdxDGZg/miJjsR2OAxwR97g4B4zp6V4wh1LX20e40rUtMu2tftcAvUjAuIQ20sux2KkErlXCsNw46441LK2134dXOgeFNPvo77TdZt/t1tqMsf2jzRcRzSyO4coxYEvlWI5wAOlemX63T6dcrpzxx3bRMIHkGVV8HaSPTOKbdlf8ArZfr/XZbu39b/wCRgr40jTV7Ky1HRNV02LUJTDZ3l0kQimfaWC4WRnQsqkgOinjBweKp3HxIso77V7a00bWL7+xZWTUJbeCPZAAqvuyzrvGGJ2puf5TlRkZ5Cx8K+Jru98KT32j6yt5p1/Fc6realr3nxyNscM0MAlZNuWz92MqMAKcnFvSrvWGvvH+l6JoVxeTXesSRpemeGO2gZraFcybn8z5fvHbG2eAPY11tuk/n8NvzfYel1fbT9f8AJdzT1bxY1r8T9DNgb7U7PUNDnlt7OxO5bh/NiKvhiqLhN3zuVABxnJAPR2PimPWvDc2paVpmoXEsUz20tgvlR3EcqPsdCXcJlTznfgjoTWNo/hG70Txh4dMCebp2leHX01rncBmQPDtG3OeQjHuB607wnY6t4W0vxDLc6NdXct3r91dwW1rLBvkhkcFXy8iqOOcFgfam0rcvTX/0rT8HclN7+n/pOv4ovfDu5trjwHZTWl3q11DulHna3Mst1kSsGDupIOCCBg9AKl0fxlFr1wjaZpGpy6ZI5SLVtkYt5SOMqN/mlcggNs2nrnHNY/w/07VYfA8nh3XdEvtKk23GZ5Zrd0YSyOwC+VKzZAcdQPY1Y8EHX9F0PS/DWqeHplbToVtW1KO5hNrIkY2q6jf5uSAPlMYwTjOOaN3r/Xf7v18g6f1/Wp2dFFFIYUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAB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Figura 12 - Método de gravação de uma parábola em PNG

Com este novo código e com as devidas alterações para responder as nossas necessidades, foi encontrada a solução para implementar a opção de gravar todos os gráficos que necessitariam de ser esboçados pela necessidade do utilizador, em PNG. Tendo obtido:

![Uma imagem com captura de ecrã

Descrição gerada automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RD8RXhpZgAATU0AKgAAAAgABAE7AAIAAAARAAAISodpAAQAAAABAAAIXJydAAEAAAAgAAAQ1OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEbDoWJpbyBGZXJuYW5kZXMAAAAFkAMAAgAAABQAABCqkAQAAgAAABQAABC+kpEAAgAAAAM3NgAAkpIAAgAAAAM3NgAA6hwABwAACAwAAAieAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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VyhUSEAFPlLb8fdBOM8VclaTj/W9iIu8VLv/AMOdjRXmtpqt5YfFjWNS8V29lpyWnhqOV/sl29ygiWeUlizRRnPXjB6DnnFa0XjjU4V0u/1nw/HY6LqsyQwXK33mTQmQ4hM0WwKgbIB2u+0sAfWpWqXn/m0vvsN6N/10T/C52lFFc/rXiS6tNetdC0PT49Q1S4ge6ZZ7k28MEKkLudwjnJYgKApzg5wBR5AdBRXCS/EmVdPsfJ0J31O41Z9HmsjcgCC4WNmzvCndH8o+bAO1s4yNtN8I/EqfxNqmm2tzoLadHqEFy8UhuhIfMt3VJBt2j5Mt8rZycHKjgkWu39aX/IHp/Xnb9DvaKK8rOr6/dWnjjV38XXOnR6BqM8VtAba1a32RxI4V90W85LEcODyMHNJySvfor/l/mNJv77HqlFeUx+PPEP8AwnOiPe/6JpUug2t7qWn+UpMUk0pjLhsbhtYpkZwFDEjNTXXjnXYr3VNKspoZNRu/Ew0nTXuIgY7WL7PHK7lV2l9o3kAnJJHOOKqzvb+tGo/mybrf0/FX/I9QorlvDl5bLrlxpy+O08QXcKMLixme0M0DKwBIWBEKgEkEMG5K8jBz1NIYUVwHiX4WQ+IrzxLcNqfkHXkslI+zlvJ+zvuz98bt3Ttj3rZ8daLPqPh77ZpMpt9X0km80+YE4EiqcowHVHXKEejeoFJtKN2OzbsjpqKzPD+txeIfC2n61aIfLvbVLhYweRuXO3654qDwlrd74i8MWup6potzod1Nu32N0SXjwxAzkA8gZ5A61TTTafQlNNJ9zaooopDCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigArl/iGJT4UhFsyJMdX0vy2kUsob7fBgkAgkZ7ZH1rqKrX+n2up2yQX0XmxJNFOq7iuHikWRDwezopx0OMHIoA47U/DWv+Ktd0O61uw0XTE0i8W7W6tLuS6uHx/yyUtDH5at/EctnAGO4yvFGiHVvjHpthp88bW13bR3evWuM5jtpA1sT6FnJXB6qp9K9Pqnp2j6ZpHn/ANk6daWP2iQyzfZoFj81z1ZtoGT7nmhaNPs7/P8Ar8geqfnp8v6/roZnivS7rVrWK3TQ9E1213bpLTV3KKrDo4PlSgkcjG0dc57HN0DwTNYfDS68Lahdgi7hniCxu8sdpHKCFijZzuZEBABOCcdB0HY0UrKzXcd2mn2OU0fSNcufCcnh3xZa6atudP8AsRubG8eRphs2FjG0ShMjnG5ueKw/DPw+/sSTTre78FeDZ/sLKo1iEeXcvsPyy+V9nOJOAT+965Oa9Hoqrvm5uv8AX+ZNlax55p3gDVLTU9MuJLizKWmq6neuFdslLkPsA+XqNwz29Casx+GfFukfB+w8P+GNUsLLxBZwRRC7kUyQjaw343Ieozglfy6juqKlKyt6fhsVfW/r+Jzfizw9fa3punTafPAmraVdR3ts0wYQySKCrI+MkKyswyMkZBwcYNS38Napq/iKbW/E4tLSVbCTT7W0sLh51jSQgySNI6JliVUAbQAF6nPHX0UWTv8A1urP8BLS39bO/wCZ5lD4H8WS6b4Q0q7l0eGy8MXttLvimlkkvEiUoGwUURHafu/OCT95cfN0Or6Jrlv45j8SeHotPuzJp/2G5tb65e34WTejq6xyf3mBBUdRzXWUVV23fzb+9WYWX6fc7/mYHi618UX3hKWHwffWel643llJrgeZEnzAuOUOeMgEr+A7YnxSN1H4V0gwrFPdrrmnbVdzGjv56cEgMVBPfBx6Gu6qG6srW+REvbaG4SORZUWWMOFdTlWGehBGQeoNJaNPzT+5oOlvJr7zm9O0DVrvxNceIfEIsre6FibC0tLKZ5kjRmDu7SMiFmZgowFAAX+LPF3wTolz4b8D6Ro188UlxZWywyNCSUJHoSAcfgK3aKNlZf1v/mw8/wCv60OJ8R6V4s1Dxjo+p6bp2jPa6PLM8Yn1SWN5xJFs5At2CYznq2fatN9CvZviFp/iGQ26QQaTNZyxK7MwkeSN/l+UAqNh5OD04ro6KFo7/wBbWB6/153ON0fwVcW/hnxVpGpTw7ddv76dHhJbZFPwM5A+YDqBx71oeFofEtjo8Nhrtppe6ztUiiuLS9kfz2UYyyNCvlg4zwzYroqKNlbyS+7YHq7+bf37nEaFpXi208daprOoaboqW2qrbpIsGqyyPAIlYZANuocnd0yuPWnHwbqB0HxzZedbeZ4imuJLQ7m2oJLZIhv+Xj5lJOM8flXa0Umk013Vvy/yGm0013uee+K9IvNF8E+GdRSNrq58KS29xPFbZYyxLGYptoxk4RmYcc7a7uyvbbUrCC9sJ0uLa4jEkUsZyrqRkEGp6itbS3sbVLaygit4IxhIoUCKv0A4FU22231d/wCvwJSSSS6Kw6ZDJBIi9WUgZ+lYvgnRLnw34H0jRr54pLiytlhkaEkoSPQkA4/AVu0Uv6/r7xnE+I9K8Wah4x0fU9N07RntdHlmeMT6pLG84ki2cgW7BMZz1bPtVvXNA1iTxNpfifQhYtqNrayWdzZ3crJFNFIVYhZVRmUqyAg7DkE8Curoo2A5TxBoeteJNB02K6FhbXlvqtreyxxzO8axxTK5UOUBZsDglVGTjjrUepeDZdV8dajqd1JD/Zl94fOkugY+buMjMTjGMbW9evauvoosrW9fxVvyHd/l+Dv+Z5x4Z+H39iSadb3fgrwbP9hZVGsQjy7l9h+WXyvs5xJwCf3vXJzWj4j0rxZqHjHR9T03TtGe10eWZ4xPqksbziSLZyBbsExnPVs+1dtRTbb3Jsloc7d6Fe3njrQ9dY28cNjZXME8Qdi2+UxkbflGQNh5OO3FL4x8P3WuWdjPpU0MWp6XeJe2n2jd5TuoKlH28hWVmGQCRnODjB6Gil28v87/AJj/AK/Q5bTNC1a78XjxJ4kWztp7e0aztLOxuHnRFdlZ3aRkTLEqoACgADqc8dTRRR0sHW54jDp51O+8a6+2j2mr2EGrTfaBqGu3Fkri3RRsktkR4XVSpwZMZGCwFdmkep+ILzw/468MWlsWm0p4XsNTne32xymOQMGSN+QUxjGCD1FdHf8Ag/w1quom/wBU8O6Te3hxm5uLGOSTjp8xUnjtWxRHRJdrflZ/eD1bf9b3/A8xHw58Qf8ACE6npc9/p9zd3uvPqksY8yK3vIWdWaCTAZkVsEEDeOgO4E1f8K+BLvRvFuo6wdM0DR7e805bRbDR0IWN1djuZtiByQfvbVxwMHG49/RStpb+trfkH9fjf8zC8E6Jc+G/A+kaNfPFJcWVssMjQklCR6EgHH4CuYvvBniUaV4m0HSZ9Mj0zXJrm4W7mkfz4TOvzxeXsKkFs4fdwG+6cc+iUU5e8231Gna1uh55rngXUr680KZ7LR9etdP037JJperSulus3y4nX91IGbAK/MoODwRk1X0/4b6rpfhKG0tpdKXUbHXm1i0jgjeG1ILH91tAJjG1mAxu28da9Lop3d7/ANb3/P8Ay2JsrW/ra35HBnwVq2t69rN/4nms0g1bRv7Ma2snZvs43scB2Vd/DE7iF5ONuBkieGPE+r2GkaN4lbS007S54Z5Lqznlea9MDAxAxsgEWSFZvnfpgdcjvKKS02/rVtfi/wDMb13/AK0S/Jf5BXD+MPAi614qs/EEOkaJrUkVq1nNY60mI2TdvV0k8uTa6tkY2HIY8jHPcUUutw6WOGXwVMU8PNZaLoegDTtXN9c2umuTE6+S8eVIhTLncvVRwOtQeF/Aep6JqXh24up7R00uDUI5hG7EsbiZXTblRnAHOcc9M16BRT63/rawf1+N/wBQrifD3w606y8Qa5rGu6VpN9e3mrtfWV01usk0CbU2jey5Vgyk8HAznNdtRQtHf+un+Qbqxyd54PfUfiDe6tffZ5dKvNC/suSAk72YyszZGMbdrYznOe1c1YfDPX4tHunudVs11yDW11XTrsB5Y3KQpFiYEKfnVW3bScbsgnFeo0ULTb+tb/mN67/1pb8jjNN0LxDdfEaLxLr1vpllFBpT2KQ2V7Jcs7NKj7iWhj2gbcd61NIs/FEPi3W7jWdStLjQ5vK/su1ijxJBhT5m87RnJx3b/gPSt+ihafj+LuL+vuCue8b6+vh/wtcSxKZr+6/0WwtlPz3Fw/CIv48k9gCe1dDUUltBNPDNLBG8sBJikZAWjJGCVPbIOOO1KSUlZjTs7oxNDtLXwR8P9PstTv7e2g0yyjhmu53CRghQCxJwACfX1rM+FWo+I9W8Dx3ni6Uz3UlxKbec24hM9vu/duUAGMjkcDjB9z2dFU23JyfUlK0Ul0CiiikMKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACii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Figura 13 - Método final de gravação de gráficos em PNG

1. **Resultados**

A versão finalizada da aplicação em Java resultou num programa completamente executável a partir da linha de comandos e disponível em dois modos: interativo e não interativo.

Em ambos os modos, os outputs resultantes da implementação da aplicação constituem vários tipos de mensagens na consola, gráficos (com recurso à ferramenta Gnuplot) e ainda ficheiros de extensão *png* ou *csv*, com todos os dados desses mesmos gráficos. No modo não interativo é adicionalmente gerado um ficheiro de extensão *txt* com todo o texto que seria mostrado na consola em modo interativo.

Estando a aplicação dividida em 7 opções de menu, apresentamos abaixo o resultado expectável decorrente da escolha de cada uma:

1. **Visualizar gráfico de consumos**

Opção que gera uma janela de visualização de um gráfico através do Gnuplot.

Em modo interativo, é dada a opção de gravar o mesmo gráfico em formato *png* ou *csv* (podendo o utilizador selecionar um dos formatos, ambos ou nenhum). De acordo com a escolha são gerados os ficheiros adequados.

Em modo não interativo são automaticamente criados ambos os ficheiros.

1. **Visualizar média global e distribuição de observações**

Opção que gera uma janela de visualização de um gráfico de barras através do Gnuplot.

As opções de gravar o gráfico são idênticas às explicadas na opção 1.

Após visualizar e gravar o gráfico, é ainda apresentada ao utilizador a seguinte informação (na consola em ambos os modos e no ficheiro Output.txt em modo não interativo):

* Média – valor da média simples do consumo no período selecionado. Por exemplo, se a periodicidade escolhida para a análise for “mensal” é apresentado o consumo médio por mês.
* Quantidade de valores próximos da média – número de observações cujo valor é igual à média ou até 20% superior ou inferior à mesma.
* Quantidade de valores acima (ou abaixo) da média – número de observações cujo valor é superior (ou inferior) à média em mais do que 20%.

1. **Efetuar uma filtragem**

Opção que gera uma janela de visualização de dois gráficos sobrepostos – o original e o resultante da filtragem selecionada.

Após visualizar e gravar o gráfico, é apresentado na consola (e em ficheiro Output.txt em modo não interativo) o valor do erro absoluto da filtragem em questão.

1. **Ordenar valores**

Opção que ordena os valores dos consumos periódicos (diários, mensais, etc.) de forma crescente ou decrescente, apresentando de seguida o gráfico dos valores ordenados e, tal como nas opções anteriores, gerando ficheiros *png* e/ou *csv*.

1. **Efetuar uma previsão**

Opção que calcula o consumo previsto para uma data definida pelo utilizador com base na média móvel simples ou pesada do período imediatamente anterior. O resultado é apresentado sob a forma de texto na consola e, no modo não interativo, em ficheiro *txt*.

1. **Alterar o ficheiro**

Opção que permite submeter um novo ficheiro *csv* para análise. Se o nome do ficheiro for válido é apresentado na consola o texto “Ficheiro alterado”.

1. **Sair**

Esta opção não apresenta qualquer output e encerra o programa.

## Análise dos resultados

Os resultados efetivos da aplicação foram, em grande parte, de encontro ao esperado.

O formato dos dados de saída foi respeitado no que toca a:

* Gráficos guardados, quer em png com csv, sendo-lhes atribuído um nome de acordo com o padrão “Consumos (*NomeDaSerieTemporal*.csv) *Opcao* *TipoDeAgregacao* *DataDeCriacao* *HoraDeCriacao*”.
* Texto na consola, onde todos os valores são claramente explicados e seguidos pela unidade MW (megawatts), quando aplicável.
* Ficheiro de output em modo não interativo, constando nele todo o *log* do texto que é apresentado na consola ao longo do correr do programa, sem qualquer modificação.

Os principais desvios do pretendido prenderam-se com o formato dos gráficos, que falharam em apresentar a data das observações no eixo horizontal (ou das abcissas), e a transcrição de informação de gráficos para ficheiros *csv*, onde apenas foi possível incluir a sequência de valores de consumo, isto é, a ordenada de cada ponto do gráfico, não acompanhados pelo respetivo momento da observação (a abcissa).

No que toca ao cálculo e apresentação de valores (como se verifica necessário na opção 3 e 5, por exemplo), apesar do formato do output corresponder ao esperado tornou-se difícil aferir a precisão dos cálculos subjacentes uma vez que o ficheiro exemplo no qual se baseou o desenvolvimento da aplicação apresentava várias falhas. Para colmatar este obstáculo, na elaboração de testes unitários, por exemplo, tomou-se o cuidado de utilizar apenas períodos sem falhas (que não devem ser confundidos com períodos incompletos, os quais foram testados com sucesso). Ainda assim, admitimos existir a possibilidade de ligeiros erros de cálculo e, consequentemente, do resultado em algumas opções.

No tema de testes unitários, destacamos que foram elaborados 29 testes unitários para 19 métodos. Escolheu-se não elaborar testes para os métodos não relevantes, ou seja, os de tipo *void* - exceto aqueles cuja função era alterar arrays - e os métodos que recorriam à classe Scanner para obter input de utilizador. Neste conjunto de métodos não testados foram incluídos, em geral, os métodos de transcrição de texto ou gráficos para ficheiro *csv* ou *png*, os métodos de criação de gráficos e ambos os métodos específicos do modo não interativo.

1. **Conclusão**

Tal como pretendido, conseguimos criar uma aplicação em linguagem Java que analisasse séries temporais: recolhendo os dados necessários de um ficheiro de texto, consegue efetuar filtragens e previsões, bem como a média global dos consumos elétricos registados.

Para cumprir esta tarefa, tivemos de aplicar vários dos conceitos que aprendemos nas cadeiras lecionadas neste primeiro semestre:

-Algoritmia e Programação: desenvolvimento da aplicação no programa *NetBeans*;

-Álgebra Linear: definição das dimensões dos *arrays* utilizados para guardar os dados;

- Análise Matemática: interpretação das respetivas fórmulas de filtragem e previsão;

-Princípios da Computação: utilização da linha de comandos para executar o programa (tanto em modo interativo como não interativo);

-Laboratório e Projeto 1: trabalho em equipa, organização e distribuição de tarefas.

Posto isto, damos como cumpridos os principais objetivos deste trabalho. Para além disso, ainda tivemos a oportunidade de aprender muito ao desenvolvê-lo: aprofundamos os conhecimentos que tínhamos em relação ao curso, otimizámos a nossa postura enquanto membros de um grupo de trabalho e aprendemos a ser mais organizados, a conseguir trabalhar sob pressão e a cumprir prazos de entregas.

Do nosso ponto de vista, o desenvolvimento do projeto correu bem, conseguimos resolver problemas e comunicar facilmente uns com os outros acerca do estado do trabalho.

# **Referências**

Delhij, A.; Solingen, R.; Wijnands,W. (2016, November 16). O Guia eduScrum. Retrieved from :

<http://eduscrum.nl/de/file/CKFiles/O_guia_eduScrum.pdf>

Seguindo as regras da APA (American Psychology Association).

# **ANEXOS**

**ANEXOS**

## ANEXO A \_ Testes Unitários

## ANEXO B \_ Diagramas

Figura 14 - Modo Interativo

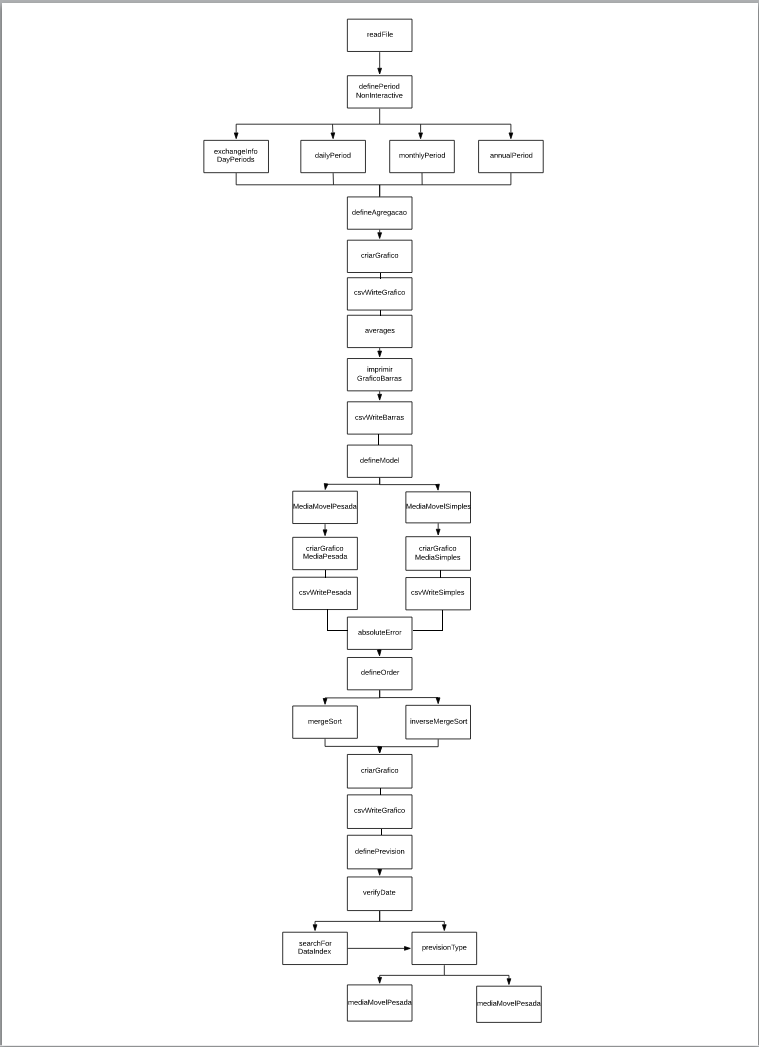


Figura 15 - Modo Não Interativo

1. Uma média móvel (MA) é um indicador utilizado na análise técnica que ajuda a suavizar a ação do preço filtrando o "ruído" de flutuações aleatórias de preços de curto prazo. É um indicador de tendência atrasado porque é baseado em preços passados. [↑](#footnote-ref-1)
2. Um indicador de atraso é qualquer variável mensurável ou observável que se move ou muda de direção depois de uma mudança que ocorre em uma variável alvo. [↑](#footnote-ref-2)