

Do as I did in class

In this class we create a class using Type-hints and PEP-8, we will recreate the class step by step `FilaPrioritaria` .

1. Let's create the class and define its attributes.

```
class FilaPrioritaria:
    codigo : int = 0
    fila = []
    clientes_atendidos = []
    senha_atual : str = ''
```

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2. We need to define the method responsible for generating the passwords, remembering that the queue code is inserted in this method.

```
def gera_senha_atual(self) -> None:
    self.senha_atual = f'PR{self.codigo}'
```

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3. Now let's define the method that checks the current position of the queue and if it is greater than or equal to 100 the queue position must be reset.

```
def reseta_fila(self) -> None:
    if self.codigo >= 100:
        self.codigo = 0
    else:
        self.codigo += 1
```

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4. Now we need to call these methods and insert the current password into the queue.

```
def atualiza_fila(self) -> None:
    self.reseta_fila()
    self.gera_senha_atual()
    self.fila.append(self.senha_atual)
```

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5. With the passwords generated and the queue being filled, we can now focus on calling the customers who need to be served!

```
def chama_cliente(self, caixa:int) -> str:
    cliente_atual = self.fila.pop(0)
    self.clientes_atendidos.append(cliente_atual)

    return (f' Cliente atual: {cliente_atual} , dirija-se ao caixa: {caixa}')
```

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6. Finally, we will create the method responsible for generating the statistics. This method must return detailed or summarized statistics, according to an argument received.

```
def estatistica(self, dia:str, agencia:str, flag:str) -> dict:
    if flag != 'detail':
        estatistica = {f'{agencia} - {dia}' : len(self.clientes_atendidos)}
    else:
        estatistica = {}
        estatistica['dia'] = dia
        estatistica['agencia'] = agencia
        estatistica['clientes atendidos'] = self.clientes_atendidos
        estatistica['quantidade de clientes atendidos'] = len(self.clientes_atendidos)

    return estatistica
```

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Instructor's opinion

If something goes wrong, don't panic, check the error message and try to solve the problem!