**ENGINES**

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| Class Engines |
| name\_of\_engine: str  when\_should\_be\_serviced: int |
| should\_be\_service: calculate if service should be made, using the year given in the car model |

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| Class Change\_of\_Engine |
| car\_model: str  can\_have\_different\_engine: str |
| If the car can change engines  select\_new\_engine: use the should\_be\_service method, then select an engine (based on producer’s or user’s preferences) |

**Batteries**

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| Class Batteries |
| name\_of\_battery: str  serviced\_every\_many\_years: int |
| should\_be\_service: calculate if service should be made, using the year given in the car model |

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| Class Change\_of\_Battery |
| car\_model: str  can\_have\_different\_battery: str |
| If the car can change batteries  select\_new\_battery: use the should\_be\_service method, then select an engine (based on producer’s or user’s preferences) |

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| Class Palindrome |
| model: str  current\_year: int  when\_was\_bought: int  engine\_type: str  battery\_type: str  parts\_of\_the\_car: list(str) |
| year\_of\_car: calculate how many years the car has been used  use Change\_of\_Battery Class if the car allows it  use Change\_of\_Engine Class if the car allows it  changes\_in\_the\_car: if there are changes to be made, that are not battery nor engine related, this should be done here |

**Car models**

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| Class Calliope |
| model: str  current\_year: int  when\_was\_bought: int  engine\_type: str  battery\_type: str  parts\_of\_the\_car: list(str) |
| year\_of\_car: calculate how many years the car has been used  use Change\_of\_Battery Class if the car allows it  use Change\_of\_Engine Class if the car allows it  changes\_in\_the\_car: if there are changes to be made, that are not battery nor engine related, this should be done here |

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| Class Glissade |
| model: str  current\_year: int  when\_was\_bought: int  engine\_type: str  battery\_type: str  parts\_of\_the\_car: list(str) |
| year\_of\_car: calculate how many years the car has been used  use Change\_of\_Battery Class if the car allows it  use Change\_of\_Engine Class if the car allows it  changes\_in\_the\_car: if there are changes to be made, that are not battery nor engine related, this should be done here |

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| Class Thovex |
| model: str  current\_year: int  when\_was\_bought: int  engine\_type: str  battery\_type: str  parts\_of\_the\_car: list(str) |
| year\_of\_car: calculate how many years the car has been used  use Change\_of\_Battery Class if the car allows it  use Change\_of\_Engine Class if the car allows it  changes\_in\_the\_car: if there are changes to be made, that are not battery nor engine related, this should be done here |

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| Class Rorschach |
| model: str  current\_year: int  when\_was\_bought: int  engine\_type: str  battery\_type: str  parts\_of\_the\_car: list(str) |
| year\_of\_car: calculate how many years the car has been used  use Change\_of\_Battery Class if the car allows it  use Change\_of\_Engine Class if the car allows it  changes\_in\_the\_car: if there are changes to be made, that are not battery nor engine related, this should be done here |