## model

### class Automotive implements Serializable

String name

Automotive()
Automotive(String)
Automotive(String, float)
Automotive(String, float, int)

getName(): String
getBasePrice(): float
getOptionSet(int): OptionSet
getOptionSetIndex(String): int
getOptionSet(String): OptionSet
getOptionSetArray(): OptionSet[]
getOptionSetSize(): int
getOption(int, int): Option
getOption(String, int): Option
getOption(int, String): Option
getOption(String, String): Option
getOption(OptionSet, int): Option
getOption(OptionSet, String): Option
getOptionArray(int): Option[]
getOptionSize(int): int

setName(String): void
setBasePrice(float): void
setOptionSet(String, String, Option[]): void
setOptionSet(int, String, Option[]): void
setOptionSetArray(int): void
setOption(int, int, String, float): void
setOption(String, int, String, float): void
setOptionArray(OptionSet, int): void
setOptionArray(int, int): void
setOptionArray(String, int): void

findOptionSet(String): OptionSet
findOptionSet(int): OptionSet
findOption(int, int): Option
findOption(int, String): Option
findOption(String, int): Option
findOption(String, String): Option

deleteOptionSet(int): void
deleteOptionSet(String): void
deleteOption(int, int): void
deleteOption(int, String): void
deleteOption(String, int): void
deleteOption(String, String): void

updateOptionSet(String, String, Option[]): void
updateOptionSet(int, String, Option[]): void
updateOption(OptionSet, String, String, float): void
updateOption(OptionSet, int, String, float): void

isValid(int): boolean
isValid(String): boolean
isValid(int, int): boolean
isValid(int, String): boolean
isValid(String, int): boolean
isValid(String, String): boolean

print(): void

### class OptionSet implements Serializable

String name
Option[] opt

OptionSet()
OptionSet(String, Option[])

getName(): String
getOption(int): Option
getOption(String): Option
getOptionIndex(String): int
getOptionArray(): Option[]
getOptionArrayLength(): int

setName(String): void
setOption(Option[]): void
setOptionArray(int): void

isValid(String): boolean

print(): void

#### class Option implements Serializable

String name
float price

Option()
Option(String, float)

getName(): String
getPrice(): float

setName(String): void
setPrice(float): void

print(): void

## driver

### class Driver

main(String[] args): void
   1. build Automotive from a text file
   2. print information about this Automotive
   3. Serialize this Automotive
   4. Deserialize this Automotive
   5. print information again for the
      deserialized Automotive

## util

### class FileIO

buildAutoObject(String): Automotive
serializeAuto(Automotive, String): void
deserializeAuto(String): Automotive