# \_Critère de Harrold McGreggor de UsedBook\_

Méthodes à retester dans le contexte d’UsedBook:

Puisque addUsedCopy change title, author, pages; il faut retester ses tranches.

Title: Book(), Book(…), getTitle, setTitle, addUsedCopy

Author: Book(), Book(…), getAuthor, setAuthor, addUsedCopy

Pages: Book(), Book(…), getPages, setPages, addUsedCopy

Puisque changePrice et gift change l’attribut price, faut retester la tranche price :

Price : Book(), Book(…), getPrice,setPrice, changePrice, giftBook:

# Les tranches

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Tranches Book | | | | | | | |
| Title | Book() | Book(…) | getTitle | setTitle |  |  |  |  |
| Author | Book() | Book(…) | getAuthor | setAuthor |  |  |  |  |
| Price | Book() | Book(…) | getPrice | setPrice |  |  |  |  |
| Pages | Book() | Book(…) | getPages | setPages |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Tranches UsedBook | | | | | | | |
| Title | usedBook | gettitle | settitle | addUsedCopy |  |  |  |  |
| Author | usedBook | getAuthor | setAuthor | addUsedCopy |  |  |  |  |
| Price | usedBook | getPrice | setPRice | changePrice | giftBook | addUsedCopy |  |  |
| Pages | usedBook | getPages | setPages | addUsedCopy |  |  |  |  |
| Status | usedBook | getStatus | setStatus | showStatus |  |  |  |  |
| Year | usedBook | getYear | setYear | addUsedCopy |  |  |  |  |

# Madum

Book

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Book() | Book(…) | getTitle | setTitle | getAuthor | setAuthor | getPrice | setPrice | getPages | setPages |
| Title | C | C | R | T |  |  |  |  |  |  |
| Author | C | C |  |  | R | T |  |  |  |  |
| Price | C | C |  |  |  |  | R | T |  |  |
| Pages | C | C |  |  |  |  |  |  | R | T |

UsedBook

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Book | Book() | getTitle | setTitle | getAuthor | setAuthor | getPrice | setPrice | getPages | setPages | UsedBook() | getStatus | setStatus | getYear | setYear | addUsedCopy | changePrice | giftBook | showStatus |
| Title | C | C | R | T |  |  |  |  |  |  | C |  |  |  |  | T |  |  |  |
| Author | C | C |  |  | R | T |  |  |  |  | C |  |  |  |  | T |  |  |  |
| Price | C | C |  |  |  |  | R | T |  |  | C |  |  |  |  |  | T | T |  |
| Pages | C | C |  |  |  |  |  |  | R | T | C |  |  |  |  | T |  |  |  |
| Status |  |  |  |  |  |  |  |  |  |  | C | R | T |  |  |  |  |  | o |
| Year |  |  |  |  |  |  |  |  |  |  | C |  |  | R | T | T |  |  |  |

Les tranches a retester est : Title, Author, Pages, Prices.

Les séquences de tests pour x dans la classe UsedBook :

Title

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| UsedBook() | getTitle | setTitle | getTitle | addUsedCopy | getTitle |
| UsedBook() | getTitle | addUsedCopy | getTitle | setTitle | getTitle |

Author

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| UsedBook() | getAuthor | setAuthor | getAuthor | addUsedCopy | getAuthor |  |  |  |  |
| UsedBook() | getAuthor | addUsedCopy | getAuthor | setAuthor | getAuthor |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

Price

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| UsedBook() | getPrice | setPrice | getPrice | changePrice | getPrice | giftBook | getPrice |
| UsedBook() | getPrice | setPrice | getPrice | giftBook | getPrice | changePrice | getPrice |
| UsedBook | getPrice | changePrice | getPrice | giftBook | getPrice | setPrice | getPrice |
| UsedBook | getPrice | changePrice | getPrice | setPrice | getPrice | giftBook | getPrice |
| UsedBook | getPrice | giftBook | getPrice | setPrice | getPrice | changePrice | getPrice |
| UsedBook | getPrice | giftBook | getPrice | changePrice | getPrice | setPrice | getPrice |

Pages

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| UsedBook() | getPages | setPages | getPages | addUsedCopy | getPages |
| UsedBook() | getPages | addUsedCopy | getPages | setPages | getPages |

Les séquences de tests pour x dans la classe Book :

Title :

|  |  |  |  |
| --- | --- | --- | --- |
| Book() | getTitle | setTitle | getTitle |
| Book(…) | getTitle | setTitle | getTitle |

Author:

|  |  |  |  |
| --- | --- | --- | --- |
| Book() | getAuthor | setAuthor | getAuthor |
| Book(…) | getAuthor | setAuthor | getAuthor |

Price:

|  |  |  |  |
| --- | --- | --- | --- |
| Book() | getPrice | setPrice | getPrice |
| Book(…) | getPrice | setPrice | getPrice |

Page:

|  |  |  |  |
| --- | --- | --- | --- |
| Book() | getPage | setPage | getPage |
| Book(…) | getPage | setPage | getPage |

Erreurs potentielles :

Dans le constructeur par paramètres de Book, il faut utilisé this.title et this.author.

Diagramme



S0

S1

S3

ii Séquences de tests

Les cas de tests sont les séquences de la racine de l'arbre aux feuilles

|  |  |
| --- | --- |
| Quit | S0 FS |
| addItem, removeItem  Condition : itemNbr >0 && itemNbr >0 | S0 S1 S1 |
| addItem,removeItem  Condition : itemNbr >0 && itemsInBasket ==1 | S0 S1 S0 |
| addItem, AddItem Condition : itemNbr >0 | S0 S1 S1 |
| addItem, RemItem Condition : itemNbr>0 && itemInBasket>1 | S0 S1 S0 |
| addItem,checkOut  Condition : itemNbr >0 && InvalidUserLogin | S0 S1 FS |
| addItem,checkout, continueShopping  Condition : itemNbr >0 && ValidUserLogin == true | S0 S1 S2 S1 |
| addItem,checkout, ProcessPayment  Condition : itemNbr >0 && ValidUserLogin == true && InvalidCreditCard == true | S0 S1 S2 S2 |
| addItem,checkout, cancelOrder  Condition : itemNbr >0 && ValidUserLogin == true | S0 S1 S2 FS |
| addItem,checkout, ProcessPayment shipOrder  Condition : itemNbr >0 && ValidUserLogin == true && ValidCreditCard == true | S0 S1 S2 S3 FS |

Est ce que l’arbre généré en réponse à la question 2.1 est unique ? Justifiez votre  
réponse. Si non, donnez un arbre (valide!) différent de l’arbre donné à la question  
2.1.

Oui il est unique car, chaque feuille est un état déjà traitée ou terminale