# Assignment #4 – Diagrams

| <<interface>> |
| --- |
| Complementable |
| |
| + Complement() |

| BinaryWord |
| --- |
| - word: String |
| - complement: String |
| + BinaryWord() |
| + BinaryWord(word: String) |
| + getWord(): String |
| + setWord(newWord: String): void |
| + Complement(): String |
| + toString(b: BinaryWord<T>): void |
| + equals(b: BinaryWord<T>): boolean |

| *SemiGroup* |
| --- |
| + *Operator*(b: T): T |
| + combine(list: Collection): T |

| PositiveInteger |
| --- |
| - positiveInt: int |
| + PositiveInteger() |
| + PositiveInteger(p: int) |
| + getPositiveInteger(): int |

| |
|---|
| + setPositiveInteger(newPosInt: int): void |
| + Operator(b: PositiveInteger): PositiveInteger |
| + toString(): String |
| + equals(p: PositiveInteger): boolean |

| RGBColor |
|---|
| - red: int |
| - green: int |
| - blue: int |
| + RGBColor() |
| + RGBColor(r: int, g:int, b:int) |
| + getRed(): int |
| + Red(r: int): void |
| + getGreen(): int |
| + Green(g: int): void |
| + getBlue(): int |
| + Blue(b: int): void |
| + Complement(): RGBColor |
| + Operator(color: RGBColor): RGBColor |
| + toString(): String |

| ComplementableDriver |
|---|
| |
| + main(args: String[] ): void |