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F2S CIS BOSSA 11Y, 622 JAVA

Assignment 3

DNA

- NucleicAcid[] LdRtHelix
- NucleicAcid[] RtoLHelix

+DNA (String)
+DNA ()

+print()
↳ prints all NucleicAcid desc. for L&R
+highestMolarMass()
↳ returns highestMolarMass() idx
totalDensity()
↳ Sum of all NucleicAcid densities

Contains

Nucleic Acid

- String name
- String chemicalFormula
- float molarMass
- float density

+NucleicAcid (String, String, float, float)
+NucleicAcid ()

+print() -> void
↳ prints all vars w/ units

Getters and Setters

- +String getName()
- +String getChemicalFormula()
- +float getMolarMass()
- +float getDensity()

- +setName (String)
- +setChemicalFormula (String)
- +setMolarMass (float)
- +setDensity (float)

DNA Driver

+DNADriver()
+print()

+static main() -> void
↳ gets standard input, creates DNA objects, prints id, highest and totalDensity
↳ molar mass

Association
Dependence

Human Genome

- genomeName String
- numberofLanes int
- numberofChromosomes int
- numberofCells Trillions dbl

+Human Genome

+HumanGenome (String, int, int, double)

+print()

Getters and
Setters dep.
all vars...