

main

DataSet

-numBatches: int
-numItems: int
-percentBadBatch: float
-percentBadItem: float
-sampleSize: int

+DataSet()
+LoadTestInput(fileName:String): void
+PrintTestInput(): void
+CreateBatch(fileName:String): bool
+GenerateBatches(): int
+CheckBatch(fileName:String): bool
+AnalyzeBatches(): int
+RunSimulation(): void
+DeleteBatches(): void

MonteCarlo

-Category: struct = min,max,occur,dmin,dmax,doccu
-numSimulations: int
-numCategories: int
-categories: vector<Category>
-unit: String

+MonteCarlo()
+LoadReadingInput(fileName:String): void
+PrintReadingInput(): void
+GetAnalyticalResult(): float
+GetSimulationResult(): float
+PrintInterval(result:float): void
+ResetDistribution(): void
+IncrementOccurence(num:int): void
+RunSimulation(): void