[Domain||+isFinite();+isInfinite();+isOrdered();],

[ArbitraryTokenDomain|-possibleValues: Set(o:Object);], [RandVar|-name:string;-domain:Domain;-scope:Set(r:RandomVariable)|+getDomain():Domain;+getName():string], [ExampleRV|-AGE\_RV:RandVar;-NATIONALITY\_RV:RandVar;-SPORTS\_RV:RandonVar;-WATCHTV\_RV:RandomVar|], [BayesNetExampleFactory||+constructWorldCupSoccer():BayesianNetwork;+constructDistribuicaoBolsas():BayesianNetwork], [FullCPTNode|-cpt:ConditionalProbabilityTable], [BayesianNetwork||+getVariablesInTopologicalOrder():List(r:RandomVar)], [BayesInference||+ask(X; observedEvidence; BayesianNetwork;)], [EliminationAsk||+order();+calculateVariables();+EliminationAsk()], [EnumarationAsk||+EnumarationAll();+EnumarationAsk()], [AssignmentProposition||+setValue(o: Object)], [BayesSampleInference||+ask(X; observedEvidence; bn : BayesianNetwork; NSamples:int) ], [RejectionSampling||+RejectionSampling(ps : PriorSample);+rejectionSampling(r:RandomVar;bn: BayesianNetwork;NSamples:int)], [PriorSample||priorSample(bn:BayesianNetwork )], [ProbabilityDemo||+main(args:StringArray);+bayesEnumerationAskDemo();+bayesEliminationAskDemo();+bayesRejectionSamplingDemo()],

[FiniteBayesModel|-bayesNet:BayesianNetwork;-representation: Set(RandomVariable);-bayesInference: BayesInference; |+FiniteBayesModel(bn : BayesianNetwork ;bi : BayesInference)]

[FiniteProbabilityModel||+jointDistribution(X: Proposition); +posteriorDistribution(X: Proposition; evidence: Proposition );+priorDistribution(X: Proposition ); ]

[ArbitraryTokenDomain]->[Domain], [RandVar]<>[Domain], [ExampleRV]<>[RandVar], [BayesNetExampleFactory]-[ExampleRV], [BayesNetExampleFactory]-[FullCPTNode], [BayesNetExampleFactory]-[BayesianNetwork], [EliminationAsk]->[BayesInference], [EnumarationAsk]->[BayesInference], [BayesInference]-[BayesNetExampleFactory], [AssignmentProposition]-[BayesNetExampleFactory], [BayesSampleInference]->[BayesInference], [RejectionSampling]->[BayesSampleInference], [RejectionSampling]<>[PriorSample], [ProbabilityDemo]-[BayesNetExampleFactory], [FiniteBayesModel]-[ProbabilityDemo]

[FiniteProbabilityModel]->[FiniteBayesModel]