-points:KNN -name:string +Graph(const string,const KNN &) +drawPoint() +choosePlotCluster(int,int) +tryPointKNN() +dashPointKNN() +getName():string const

Data -data:P -name:string -number:int -k:int -Point: int P map -sample_:int -sampleCategory: int -indexCategory:int vector -vec:pair int P vector -vecSort:pair double double vector -setXYCategory() -setCategory() +Data(const string &,int &,int &,int &) +getXPoint(int):double +getYPoint(int):double +getCategory(int):int +randomKNNCalculator() +setDistance(int,double) +comparison(const pair<int, P> &a,const pair<int, P> &b):bool static +gTCategory(void)int static +getPoint(int):int +sortDistance() +changingVecIndex() +selectCategory():int +printPoint() +printSortVec() +vecSecondX(int):double +vecSecondY(int):double +vecSortClear() +getSampleCategory():int +~Data() +getK():int const +getSample():int const

<Struct>

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- -x:double
- -y:double
- -category
- -distance:double

KNN

- -tryPoint:attempt
- -K:int
- -randomNumber:int
- -v_Point: attempt vector
- +KNN(const string&, int &, int &, int &)
- +setAttemptPoint(double,double)
- +classifyAPoint(vector<attempt>)
- +getTryPointX():double const
- +getTryPointY():double const
- +getTryPointK():int const
- +KNNTestSample()
- +getK()int
- +~KNN()