/\* ----------------------------------------------------------------------------

\* This file was automatically generated by SWIG (http://www.swig.org).

\* Version 4.0.2

\*

\* Do not make changes to this file unless you know what you are doing--modify

\* the SWIG interface file instead.

\* ----------------------------------------------------------------------------- \*/

package com.twitter.ann.faiss;

public class ReproduceDistancesObjective extends PermutationObjective {

private transient long swigCPtr;

protected ReproduceDistancesObjective(long cPtr, boolean cMemoryOwn) {

super(swigfaissJNI.ReproduceDistancesObjective\_SWIGUpcast(cPtr), cMemoryOwn);

swigCPtr = cPtr;

}

protected static long getCPtr(ReproduceDistancesObjective obj) {

return (obj == null) ? 0 : obj.swigCPtr;

}

@SuppressWarnings("deprecation")

protected void finalize() {

delete();

}

public synchronized void delete() {

if (swigCPtr != 0) {

if (swigCMemOwn) {

swigCMemOwn = false;

swigfaissJNI.delete\_ReproduceDistancesObjective(swigCPtr);

}

swigCPtr = 0;

}

super.delete();

}

public void setDis\_weight\_factor(double value) {

swigfaissJNI.ReproduceDistancesObjective\_dis\_weight\_factor\_set(swigCPtr, this, value);

}

public double getDis\_weight\_factor() {

return swigfaissJNI.ReproduceDistancesObjective\_dis\_weight\_factor\_get(swigCPtr, this);

}

public static double sqr(double x) {

return swigfaissJNI.ReproduceDistancesObjective\_sqr(x);

}

public double dis\_weight(double x) {

return swigfaissJNI.ReproduceDistancesObjective\_dis\_weight(swigCPtr, this, x);

}

public void setSource\_dis(DoubleVector value) {

swigfaissJNI.ReproduceDistancesObjective\_source\_dis\_set(swigCPtr, this, DoubleVector.getCPtr(value), value);

}

public DoubleVector getSource\_dis() {

long cPtr = swigfaissJNI.ReproduceDistancesObjective\_source\_dis\_get(swigCPtr, this);

return (cPtr == 0) ? null : new DoubleVector(cPtr, false);

}

public void setTarget\_dis(SWIGTYPE\_p\_double value) {

swigfaissJNI.ReproduceDistancesObjective\_target\_dis\_set(swigCPtr, this, SWIGTYPE\_p\_double.getCPtr(value));

}

public SWIGTYPE\_p\_double getTarget\_dis() {

long cPtr = swigfaissJNI.ReproduceDistancesObjective\_target\_dis\_get(swigCPtr, this);

return (cPtr == 0) ? null : new SWIGTYPE\_p\_double(cPtr, false);

}

public void setWeights(DoubleVector value) {

swigfaissJNI.ReproduceDistancesObjective\_weights\_set(swigCPtr, this, DoubleVector.getCPtr(value), value);

}

public DoubleVector getWeights() {

long cPtr = swigfaissJNI.ReproduceDistancesObjective\_weights\_get(swigCPtr, this);

return (cPtr == 0) ? null : new DoubleVector(cPtr, false);

}

public double get\_source\_dis(int i, int j) {

return swigfaissJNI.ReproduceDistancesObjective\_get\_source\_dis(swigCPtr, this, i, j);

}

public double compute\_cost(SWIGTYPE\_p\_int perm) {

return swigfaissJNI.ReproduceDistancesObjective\_compute\_cost(swigCPtr, this, SWIGTYPE\_p\_int.getCPtr(perm));

}

public double cost\_update(SWIGTYPE\_p\_int perm, int iw, int jw) {

return swigfaissJNI.ReproduceDistancesObjective\_cost\_update(swigCPtr, this, SWIGTYPE\_p\_int.getCPtr(perm), iw, jw);

}

public ReproduceDistancesObjective(int n, SWIGTYPE\_p\_double source\_dis\_in, SWIGTYPE\_p\_double target\_dis\_in, double dis\_weight\_factor) {

this(swigfaissJNI.new\_ReproduceDistancesObjective(n, SWIGTYPE\_p\_double.getCPtr(source\_dis\_in), SWIGTYPE\_p\_double.getCPtr(target\_dis\_in), dis\_weight\_factor), true);

}

public static void compute\_mean\_stdev(SWIGTYPE\_p\_double tab, long n2, SWIGTYPE\_p\_double mean\_out, SWIGTYPE\_p\_double stddev\_out) {

swigfaissJNI.ReproduceDistancesObjective\_compute\_mean\_stdev(SWIGTYPE\_p\_double.getCPtr(tab), n2, SWIGTYPE\_p\_double.getCPtr(mean\_out), SWIGTYPE\_p\_double.getCPtr(stddev\_out));

}

public void set\_affine\_target\_dis(SWIGTYPE\_p\_double source\_dis\_in) {

swigfaissJNI.ReproduceDistancesObjective\_set\_affine\_target\_dis(swigCPtr, this, SWIGTYPE\_p\_double.getCPtr(source\_dis\_in));

}

}