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

\* 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.

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package com.twitter.ann.faiss;

public class IndexRefine extends Index {

private transient long swigCPtr;

protected IndexRefine(long cPtr, boolean cMemoryOwn) {

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

swigCPtr = cPtr;

}

protected static long getCPtr(IndexRefine 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\_IndexRefine(swigCPtr);

}

swigCPtr = 0;

}

super.delete();

}

public void setBase\_index(Index value) {

swigfaissJNI.IndexRefine\_base\_index\_set(swigCPtr, this, Index.getCPtr(value), value);

}

public Index getBase\_index() {

long cPtr = swigfaissJNI.IndexRefine\_base\_index\_get(swigCPtr, this);

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

}

public void setRefine\_index(Index value) {

swigfaissJNI.IndexRefine\_refine\_index\_set(swigCPtr, this, Index.getCPtr(value), value);

}

public Index getRefine\_index() {

long cPtr = swigfaissJNI.IndexRefine\_refine\_index\_get(swigCPtr, this);

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

}

public void setOwn\_fields(boolean value) {

swigfaissJNI.IndexRefine\_own\_fields\_set(swigCPtr, this, value);

}

public boolean getOwn\_fields() {

return swigfaissJNI.IndexRefine\_own\_fields\_get(swigCPtr, this);

}

public void setOwn\_refine\_index(boolean value) {

swigfaissJNI.IndexRefine\_own\_refine\_index\_set(swigCPtr, this, value);

}

public boolean getOwn\_refine\_index() {

return swigfaissJNI.IndexRefine\_own\_refine\_index\_get(swigCPtr, this);

}

public void setK\_factor(float value) {

swigfaissJNI.IndexRefine\_k\_factor\_set(swigCPtr, this, value);

}

public float getK\_factor() {

return swigfaissJNI.IndexRefine\_k\_factor\_get(swigCPtr, this);

}

public IndexRefine(Index base\_index, Index refine\_index) {

this(swigfaissJNI.new\_IndexRefine\_\_SWIG\_0(Index.getCPtr(base\_index), base\_index, Index.getCPtr(refine\_index), refine\_index), true);

}

public IndexRefine() {

this(swigfaissJNI.new\_IndexRefine\_\_SWIG\_1(), true);

}

public void train(long n, SWIGTYPE\_p\_float x) {

swigfaissJNI.IndexRefine\_train(swigCPtr, this, n, SWIGTYPE\_p\_float.getCPtr(x));

}

public void add(long n, SWIGTYPE\_p\_float x) {

swigfaissJNI.IndexRefine\_add(swigCPtr, this, n, SWIGTYPE\_p\_float.getCPtr(x));

}

public void reset() {

swigfaissJNI.IndexRefine\_reset(swigCPtr, this);

}

public void search(long n, SWIGTYPE\_p\_float x, long k, SWIGTYPE\_p\_float distances, LongVector labels) {

swigfaissJNI.IndexRefine\_search(swigCPtr, this, n, SWIGTYPE\_p\_float.getCPtr(x), k, SWIGTYPE\_p\_float.getCPtr(distances), SWIGTYPE\_p\_long\_long.getCPtr(labels.data()), labels);

}

public void reconstruct(long key, SWIGTYPE\_p\_float recons) {

swigfaissJNI.IndexRefine\_reconstruct(swigCPtr, this, key, SWIGTYPE\_p\_float.getCPtr(recons));

}

public long sa\_code\_size() {

return swigfaissJNI.IndexRefine\_sa\_code\_size(swigCPtr, this);

}

public void sa\_encode(long n, SWIGTYPE\_p\_float x, SWIGTYPE\_p\_unsigned\_char bytes) {

swigfaissJNI.IndexRefine\_sa\_encode(swigCPtr, this, n, SWIGTYPE\_p\_float.getCPtr(x), SWIGTYPE\_p\_unsigned\_char.getCPtr(bytes));

}

public void sa\_decode(long n, SWIGTYPE\_p\_unsigned\_char bytes, SWIGTYPE\_p\_float x) {

swigfaissJNI.IndexRefine\_sa\_decode(swigCPtr, this, n, SWIGTYPE\_p\_unsigned\_char.getCPtr(bytes), SWIGTYPE\_p\_float.getCPtr(x));

}

}