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

\* 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 ReconstructFromNeighbors {

private transient long swigCPtr;

protected transient boolean swigCMemOwn;

protected ReconstructFromNeighbors(long cPtr, boolean cMemoryOwn) {

swigCMemOwn = cMemoryOwn;

swigCPtr = cPtr;

}

protected static long getCPtr(ReconstructFromNeighbors 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\_ReconstructFromNeighbors(swigCPtr);

}

swigCPtr = 0;

}

}

public IndexHNSW getIndex() {

return new IndexHNSW(swigfaissJNI.ReconstructFromNeighbors\_index\_get(swigCPtr, this), false);

}

public void setM(long value) {

swigfaissJNI.ReconstructFromNeighbors\_M\_set(swigCPtr, this, value);

}

public long getM() {

return swigfaissJNI.ReconstructFromNeighbors\_M\_get(swigCPtr, this);

}

public void setK(long value) {

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

}

public long getK() {

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

}

public void setNsq(long value) {

swigfaissJNI.ReconstructFromNeighbors\_nsq\_set(swigCPtr, this, value);

}

public long getNsq() {

return swigfaissJNI.ReconstructFromNeighbors\_nsq\_get(swigCPtr, this);

}

public void setCode\_size(long value) {

swigfaissJNI.ReconstructFromNeighbors\_code\_size\_set(swigCPtr, this, value);

}

public long getCode\_size() {

return swigfaissJNI.ReconstructFromNeighbors\_code\_size\_get(swigCPtr, this);

}

public void setK\_reorder(int value) {

swigfaissJNI.ReconstructFromNeighbors\_k\_reorder\_set(swigCPtr, this, value);

}

public int getK\_reorder() {

return swigfaissJNI.ReconstructFromNeighbors\_k\_reorder\_get(swigCPtr, this);

}

public void setCodebook(FloatVector value) {

swigfaissJNI.ReconstructFromNeighbors\_codebook\_set(swigCPtr, this, FloatVector.getCPtr(value), value);

}

public FloatVector getCodebook() {

long cPtr = swigfaissJNI.ReconstructFromNeighbors\_codebook\_get(swigCPtr, this);

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

}

public void setCodes(ByteVector value) {

swigfaissJNI.ReconstructFromNeighbors\_codes\_set(swigCPtr, this, ByteVector.getCPtr(value), value);

}

public ByteVector getCodes() {

long cPtr = swigfaissJNI.ReconstructFromNeighbors\_codes\_get(swigCPtr, this);

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

}

public void setNtotal(long value) {

swigfaissJNI.ReconstructFromNeighbors\_ntotal\_set(swigCPtr, this, value);

}

public long getNtotal() {

return swigfaissJNI.ReconstructFromNeighbors\_ntotal\_get(swigCPtr, this);

}

public void setD(long value) {

swigfaissJNI.ReconstructFromNeighbors\_d\_set(swigCPtr, this, value);

}

public long getD() {

return swigfaissJNI.ReconstructFromNeighbors\_d\_get(swigCPtr, this);

}

public void setDsub(long value) {

swigfaissJNI.ReconstructFromNeighbors\_dsub\_set(swigCPtr, this, value);

}

public long getDsub() {

return swigfaissJNI.ReconstructFromNeighbors\_dsub\_get(swigCPtr, this);

}

public ReconstructFromNeighbors(IndexHNSW index, long k, long nsq) {

this(swigfaissJNI.new\_ReconstructFromNeighbors\_\_SWIG\_0(IndexHNSW.getCPtr(index), index, k, nsq), true);

}

public ReconstructFromNeighbors(IndexHNSW index, long k) {

this(swigfaissJNI.new\_ReconstructFromNeighbors\_\_SWIG\_1(IndexHNSW.getCPtr(index), index, k), true);

}

public ReconstructFromNeighbors(IndexHNSW index) {

this(swigfaissJNI.new\_ReconstructFromNeighbors\_\_SWIG\_2(IndexHNSW.getCPtr(index), index), true);

}

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

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

}

public long compute\_distances(long n, LongVector shortlist, SWIGTYPE\_p\_float query, SWIGTYPE\_p\_float distances) {

return swigfaissJNI.ReconstructFromNeighbors\_compute\_distances(swigCPtr, this, n, SWIGTYPE\_p\_long\_long.getCPtr(shortlist.data()), shortlist, SWIGTYPE\_p\_float.getCPtr(query), SWIGTYPE\_p\_float.getCPtr(distances));

}

public void estimate\_code(SWIGTYPE\_p\_float x, int i, SWIGTYPE\_p\_unsigned\_char code) {

swigfaissJNI.ReconstructFromNeighbors\_estimate\_code(swigCPtr, this, SWIGTYPE\_p\_float.getCPtr(x), i, SWIGTYPE\_p\_unsigned\_char.getCPtr(code));

}

public void reconstruct(int i, SWIGTYPE\_p\_float x, SWIGTYPE\_p\_float tmp) {

swigfaissJNI.ReconstructFromNeighbors\_reconstruct(swigCPtr, this, i, SWIGTYPE\_p\_float.getCPtr(x), SWIGTYPE\_p\_float.getCPtr(tmp));

}

public void reconstruct\_n(int n0, int ni, SWIGTYPE\_p\_float x) {

swigfaissJNI.ReconstructFromNeighbors\_reconstruct\_n(swigCPtr, this, n0, ni, SWIGTYPE\_p\_float.getCPtr(x));

}

public void get\_neighbor\_table(int i, SWIGTYPE\_p\_float out) {

swigfaissJNI.ReconstructFromNeighbors\_get\_neighbor\_table(swigCPtr, this, i, SWIGTYPE\_p\_float.getCPtr(out));

}

}