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

\* 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 IndexBinaryHNSW extends IndexBinary {

private transient long swigCPtr;

protected IndexBinaryHNSW(long cPtr, boolean cMemoryOwn) {

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

swigCPtr = cPtr;

}

protected static long getCPtr(IndexBinaryHNSW 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\_IndexBinaryHNSW(swigCPtr);

}

swigCPtr = 0;

}

super.delete();

}

public void setHnsw(HNSW value) {

swigfaissJNI.IndexBinaryHNSW\_hnsw\_set(swigCPtr, this, HNSW.getCPtr(value), value);

}

public HNSW getHnsw() {

long cPtr = swigfaissJNI.IndexBinaryHNSW\_hnsw\_get(swigCPtr, this);

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

}

public void setOwn\_fields(boolean value) {

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

}

public boolean getOwn\_fields() {

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

}

public void setStorage(IndexBinary value) {

swigfaissJNI.IndexBinaryHNSW\_storage\_set(swigCPtr, this, IndexBinary.getCPtr(value), value);

}

public IndexBinary getStorage() {

long cPtr = swigfaissJNI.IndexBinaryHNSW\_storage\_get(swigCPtr, this);

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

}

public IndexBinaryHNSW() {

this(swigfaissJNI.new\_IndexBinaryHNSW\_\_SWIG\_0(), true);

}

public IndexBinaryHNSW(int d, int M) {

this(swigfaissJNI.new\_IndexBinaryHNSW\_\_SWIG\_1(d, M), true);

}

public IndexBinaryHNSW(int d) {

this(swigfaissJNI.new\_IndexBinaryHNSW\_\_SWIG\_2(d), true);

}

public IndexBinaryHNSW(IndexBinary storage, int M) {

this(swigfaissJNI.new\_IndexBinaryHNSW\_\_SWIG\_3(IndexBinary.getCPtr(storage), storage, M), true);

}

public IndexBinaryHNSW(IndexBinary storage) {

this(swigfaissJNI.new\_IndexBinaryHNSW\_\_SWIG\_4(IndexBinary.getCPtr(storage), storage), true);

}

public DistanceComputer get\_distance\_computer() {

long cPtr = swigfaissJNI.IndexBinaryHNSW\_get\_distance\_computer(swigCPtr, this);

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

}

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

swigfaissJNI.IndexBinaryHNSW\_add(swigCPtr, this, n, SWIGTYPE\_p\_unsigned\_char.getCPtr(x));

}

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

swigfaissJNI.IndexBinaryHNSW\_train(swigCPtr, this, n, SWIGTYPE\_p\_unsigned\_char.getCPtr(x));

}

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

swigfaissJNI.IndexBinaryHNSW\_search(swigCPtr, this, n, SWIGTYPE\_p\_unsigned\_char.getCPtr(x), k, SWIGTYPE\_p\_int.getCPtr(distances), SWIGTYPE\_p\_long\_long.getCPtr(labels.data()), labels);

}

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

swigfaissJNI.IndexBinaryHNSW\_reconstruct(swigCPtr, this, key, SWIGTYPE\_p\_unsigned\_char.getCPtr(recons));

}

public void reset() {

swigfaissJNI.IndexBinaryHNSW\_reset(swigCPtr, this);

}

}