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

\* 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 IndexScalarQuantizer extends IndexFlatCodes {

private transient long swigCPtr;

protected IndexScalarQuantizer(long cPtr, boolean cMemoryOwn) {

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

swigCPtr = cPtr;

}

protected static long getCPtr(IndexScalarQuantizer 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\_IndexScalarQuantizer(swigCPtr);

}

swigCPtr = 0;

}

super.delete();

}

public void setSq(SWIGTYPE\_p\_ScalarQuantizer value) {

swigfaissJNI.IndexScalarQuantizer\_sq\_set(swigCPtr, this, SWIGTYPE\_p\_ScalarQuantizer.getCPtr(value));

}

public SWIGTYPE\_p\_ScalarQuantizer getSq() {

return new SWIGTYPE\_p\_ScalarQuantizer(swigfaissJNI.IndexScalarQuantizer\_sq\_get(swigCPtr, this), true);

}

public IndexScalarQuantizer(int d, SWIGTYPE\_p\_ScalarQuantizer\_\_QuantizerType qtype, MetricType metric) {

this(swigfaissJNI.new\_IndexScalarQuantizer\_\_SWIG\_0(d, SWIGTYPE\_p\_ScalarQuantizer\_\_QuantizerType.getCPtr(qtype), metric.swigValue()), true);

}

public IndexScalarQuantizer(int d, SWIGTYPE\_p\_ScalarQuantizer\_\_QuantizerType qtype) {

this(swigfaissJNI.new\_IndexScalarQuantizer\_\_SWIG\_1(d, SWIGTYPE\_p\_ScalarQuantizer\_\_QuantizerType.getCPtr(qtype)), true);

}

public IndexScalarQuantizer() {

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

}

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

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

}

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

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

}

public DistanceComputer get\_distance\_computer() {

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

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

}

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

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

}

}