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

\* 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 IndexFlat extends IndexFlatCodes {

private transient long swigCPtr;

protected IndexFlat(long cPtr, boolean cMemoryOwn) {

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

swigCPtr = cPtr;

}

protected static long getCPtr(IndexFlat 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\_IndexFlat(swigCPtr);

}

swigCPtr = 0;

}

super.delete();

}

public IndexFlat(long d, MetricType metric) {

this(swigfaissJNI.new\_IndexFlat\_\_SWIG\_0(d, metric.swigValue()), true);

}

public IndexFlat(long d) {

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

}

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

swigfaissJNI.IndexFlat\_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 range\_search(long n, SWIGTYPE\_p\_float x, float radius, RangeSearchResult result) {

swigfaissJNI.IndexFlat\_range\_search(swigCPtr, this, n, SWIGTYPE\_p\_float.getCPtr(x), radius, RangeSearchResult.getCPtr(result), result);

}

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

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

}

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

swigfaissJNI.IndexFlat\_compute\_distance\_subset(swigCPtr, this, n, SWIGTYPE\_p\_float.getCPtr(x), k, SWIGTYPE\_p\_float.getCPtr(distances), SWIGTYPE\_p\_long\_long.getCPtr(labels.data()), labels);

}

public SWIGTYPE\_p\_float get\_xb() {

long cPtr = swigfaissJNI.IndexFlat\_get\_xb\_\_SWIG\_0(swigCPtr, this);

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

}

public IndexFlat() {

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

}

public DistanceComputer get\_distance\_computer() {

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

}

}