package com.twitter.search.common.encoding.features;

/\*\*

\* Normalizes using the logic described in {@link SingleBytePositiveFloatUtil}.

\*/

public class SingleBytePositiveFloatNormalizer extends ByteNormalizer {

@Override

public byte normalize(double val) {

return SingleBytePositiveFloatUtil.toSingleBytePositiveFloat((float) val);

}

@Override

public double unnormLowerBound(byte norm) {

return SingleBytePositiveFloatUtil.toJavaFloat(norm);

}

/\*\*

\* Get the upper bound of the raw value for a normalized byte.

\* @deprecated This is wrongly implemented, always use unnormLowerBound(),

\* or use SmartIntegerNormalizer.

\*/

@Override @Deprecated

public double unnormUpperBound(byte norm) {

return 1 + SingleBytePositiveFloatUtil.toJavaFloat(norm);

}

/\*\*

\* Return the the post-log2 unnormalized value. This is only used for some legacy Earlybird

\* features and scoring functions.

\*/

public double unnormAndLog2(byte norm) {

return SingleBytePositiveFloatUtil.toLog2Double(norm);

}

}