TOP K FREQUENTLY USED WORDS

<https://leetcode.com/discuss/interview-question/542597/>

public static void main(String[] args) {

int k1 = 2;

String[] keywords1 = { "anacell", "cetracular", "betacellular" };

String[] reviews1 = { "Anacell provides the best services in the city", "betacellular has awesome services",

"Best services provided by anacell, everyone should use anacell", };

int k2 = 2;

String[] keywords2 = { "anacell", "betacellular", "cetracular", "deltacellular", "eurocell" };

String[] reviews2 = { "I love anacell Best services; Best services provided by anacell",

"betacellular has great services", "deltacellular provides much better services than betacellular",

"cetracular is worse than anacell", "Betacellular is better than deltacellular.", };

System.out.println(solve(k1, keywords1, reviews1));

System.out.println(solve(k2, keywords2, reviews2));

}

private static List<String> solve(int k, String[] keywords, String[] reviews) {

List<String> res = new ArrayList<>();

Set<String> set = new HashSet<>(Arrays.asList(keywords));

Map<String, Integer> map = new HashMap<>();

for(String r : reviews) {

String[] strs = r.split("\\W");

Set<String> added = new HashSet<>();

for(String s : strs) {

s = s.toLowerCase();

if(set.contains(s) && !added.contains(s)) {

map.put(s, map.getOrDefault(s, 0) + 1);

added.add(s);

}

}

}

Queue<Map.Entry<String, Integer>> maxHeap = new PriorityQueue<>((a, b)->a.getValue() == b.getValue() ? a.getKey().compareTo(b.getKey()) : b.getValue() - a.getValue());

maxHeap.addAll(map.entrySet());

while(!maxHeap.isEmpty() && k-- > 0) {

res.add(maxHeap.poll().getKey());

}

return res;

}