Question: https://leetcode.com/problems/minimum-window-substring/

<https://www.youtube.com/watch?v=e1HlptlipB0>

Code:  
class Solution {

public String minWindow(String s, String t) {

if(s.length()==0||t.length()==0){

return "";

}else if(s.equals(t)){

return s;

}else if(s.length()<t.length()){

return "";

}

int start=0, wstart=0, end=-1, minLength=Integer.MAX\_VALUE, charCount=0;

HashMap<Character, Integer> T = new HashMap<>();

HashMap<Character, Integer> W = new HashMap<>();

for(int i=0; i<t.length(); i++){

T.put(t.charAt(i), T.getOrDefault(t.charAt(i),0)+1);

W.put(t.charAt(i), 0);

}

for(int i=0; i<s.length(); i++){

if(W.containsKey(s.charAt(i))){

if(charCount==0){

start=i;

}

W.put(s.charAt(i), W.getOrDefault(s.charAt(i),0)+1);

if(W.get(s.charAt(i))<=T.get(s.charAt(i))){

charCount++;

}

if(charCount == t.length() && check(W, T)){

if(minLength>i-start+1){

minLength=i-start+1;

end=i;

wstart=start;

}

if(W.containsKey(s.charAt(start))){

W.put(s.charAt(start), W.get(s.charAt(start))-1);

if(W.get(s.charAt(start))<T.get(s.charAt(start))){

charCount--;

}

}

start++;

while( start<s.length() && (!T.containsKey(s.charAt(start)) || charCount==t.length())){

if(charCount == t.length() && check(W, T)){

if(minLength>i-start+1){

minLength=i-start+1;

end=i;

wstart=start;

}

}

if(W.containsKey(s.charAt(start))){

W.put(s.charAt(start), W.get(s.charAt(start))-1);

if(W.get(s.charAt(start))<T.get(s.charAt(start))){

charCount--;

}

}

start++;

}

}

}

}

return s.substring(wstart, end+1);

}

public boolean check(HashMap<Character, Integer> W, HashMap<Character, Integer> T){

for(char el: T.keySet()){

if(W.get(el)<T.get(el)){

return false;

}

}

return true;

}

}

Github Link :<https://lnkd.in/ecwtJeaz>