

onston=7

while(epes.length()){
 //introduce the new person in the window
 hw.put(s.charAt(ep), hw.getOrDefault(s.charAt(ep),0) + 1 );
 //i will try to undate the answer and shrink the window if possible
 while(isValid(ht,hw)){
 if(ansLen > ep-sp+1){
 ans.len = ep-sp+1;
 anslen = ep-sp+1;
 }
 hw.put(s.charAt(sp) , hw.get(s.charAt(sp)) - 1);
 sp++;
 }
 ep++;

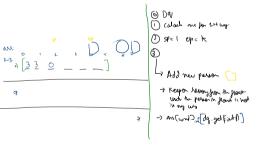
abccpodabg

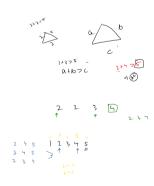
nt a 2 b:1

٨	w
CX: Z	(; <u> </u>
<b>6</b> :1	p:\
J:l	-

77(4)







(1) include new element in winds:
(2) Shrikk as mush as possib. / cal cooke
(5) with indens invalid.

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9 cymd

S=abccpadabg t=abda

\$8

ΝX	hw
a : 2	a.1 PO
<i>ኤ</i> ፡	b:1 d:(
9:1	C:0 g:1

ons=adab

 $\times$ 

1) create hoshimpost

D hw = empty

3 %=0, ep=0

(4) while (ep < 5. longth()) 2

hw and s(cp)
while (15valid (hu, ht))

the to update the onsures
ship =) preg(s(sp)) --; spit)

3
ept+

CC dx basad da bxx ddc