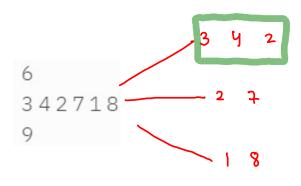
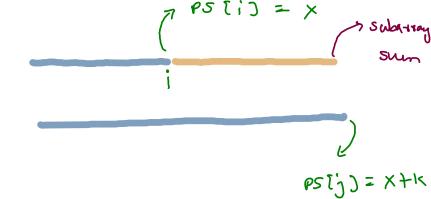
Maximum Size Subarray Sum Equals K





$$3_{0}$$
  $9_{1}$   $2_{2}$   $3_{3}$   $1_{4}$   $3_{5}$   $3_{6}$   $3_{6}$   $3_{6}$   $3_{6}$   $3_{7}$   $3_{1$ 

ps ve first index

$$|x = -10|$$

hash map

12 -> 1

-10 - ) ]

if(map.containsKey(ps-k) == true) {
 int len = i - map.get(ps-k);

if(map.containsKey(ps) == false) {

if(len > ans) {
 ans = len;

map.put(ps,i);

```
10 12 10 -10 0 ps vs first

0 - (-1)

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12 - 0

12 - 0

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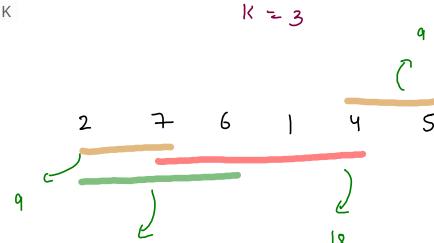
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```

Longest Subarray With Sum Divisible By K

276145



15

$$PS(i) = k + n + x$$

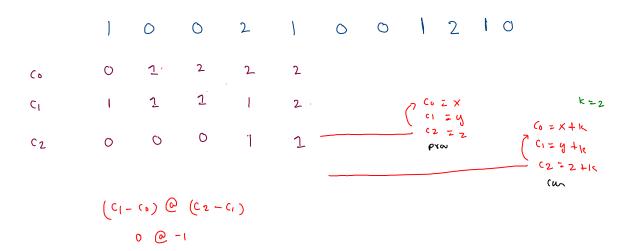
$$km + x - (kn+x)$$

$$k(m-n)$$

Ps[j] = 11 + m + x

ans = 4.568

0 -> (-1)



2

		0									
Co	0	1	2	2	2	3	4	ч	4	ч	5
CI	•	1	1	1	2.	2	2	3	3	4	4
C2	O	0	0	1	1	l	1	1	2	2	2
5+ate	1@~	1 0 0 0 0 -1	-1@-1	-1@0	0@-1	-1@-1	-2@-1	-1@-2	~(@-1	0@-2	-1@-2

ans = 26