

[illegible]

$$[-2, -2, -1, -1, 0, 0, 0, 0, 1, 1, 1, 2, 2]$$

$$\text{new target} = 4$$

$$\text{sum} = 4$$

$$\{-2, -2, 2, 2\}$$


$\lambda_1 = 0$
 λ
 λ_2
 λ
 $\lambda_1 + \lambda_2$
 $\lambda_1 + \lambda_2$
 $\lambda_1 - \lambda_2$

$$j \leftarrow j + 1$$

$p_{mod} = 10 \times 5 = 50 \times 2 = 100$
 $k = 100$
 $10 \times 5 \times 2$
 $ms = 1 + 2 + 2 + 3$
 $O(n) O(n)$
 $(5 \times 2 \times 5)$
 (2×5)
 (5)

10
10 5
5
52
2
5 25
25
5

7



Figure

[illegible][illegible]

1 2 3 4 5 6

$a+b+c+d = 15$
 $1+3+(1)+1 = 15$
 $c+d = 15 - (1+2)$

Solving window / Two pointers
 21 $x = 74 \rightarrow 22$
 $61 \times 2 = 74$
 $x = 24 - 6$
 $9 \div 15$
 Time Sum
 2 6 9 18 24 36
 2 2 4 8
 sum = 0
 $i = 0$
 $sum = 1$
 while $(s < 23) \times$
 sum += arr[i] + arr[j]
 if (sum > target) return -1
 if (sum == target) \rightarrow No. 1st
 No. 1st

$15 + x = 24$
 $x = 24 - 15$
 $x = 9$

Sum $\rightarrow 4 + 2 + 3 = 9$
 Target $\rightarrow 24$
 (2, 1, 3)

$K=100$
 10 2 150 2
 0 1 2 sep
 $2-3+1$
 $ep-sp+1 \Rightarrow 0$
 n
 1

1 0 1 1 0 0 1 1 1 0 1 0 1 1 k=2
ep
 sp

num zero = 2
 ons = 8

- introduce new to window
- shrink window, if invalid
- update ans
- expand

$$a + b = \text{target}$$
$$a = \text{target} - b$$