



(n²)

n log n
Sort

4	10	8	9	20	15	14
---	----	---	---	----	----	----

Two
Target = 200 ✓

n log n

4	8	9	10	14	15	20
---	---	---	----	----	----	----

Target = 200 ✓

4 * num2
num1 * num2 = 200

$\frac{200}{9} \Rightarrow 22.22$ ✓

num2 = $\frac{200}{4} = 50$ ✓

= $\frac{200}{8} \Rightarrow 25$

$\frac{200}{10} \neq 20$

question ✓

-ve

Number

two
two

3	4	6	8	9	10	12
---	---	---	---	---	----	----

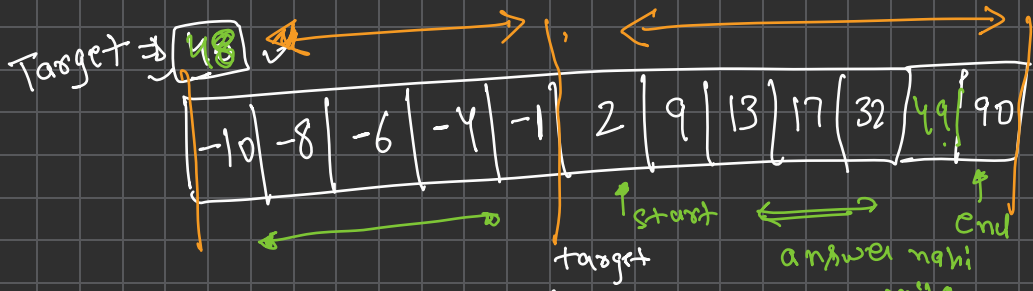
Target
= 54

O(n) ✓

start end

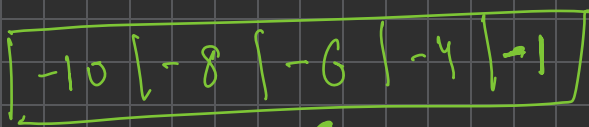
54 ✓
O(n) ✓

3 * 12 = 36
4 * 12 = 48
6 * 12 = 72
54 ✓
54
dec



num1 x num2 = 40

if (target > 0)



\uparrow
 start

\uparrow

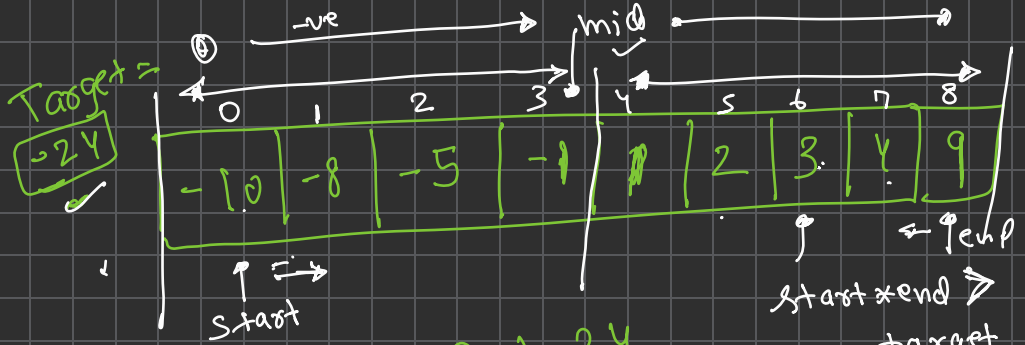
48 ✓

\rightarrow start * end < target
 end--

$-10 \times -1 = 10$
start end

$-10 \times -4 = 40$ 60

(+ve)



num1 * num2 = -24

start end

0	8
0	4
3	8
3	4

-10 * 9 = -90

-8 * 9 = -72

-10 * 4 = -40

start → mid

[-ve] or [+ve]

figout
mid = last index
of negative
numbers

if (farge >= 0)

{

(start mid) ①

mid+1, end ②

}

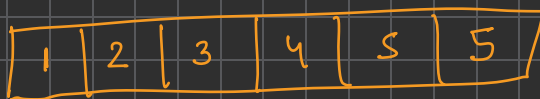
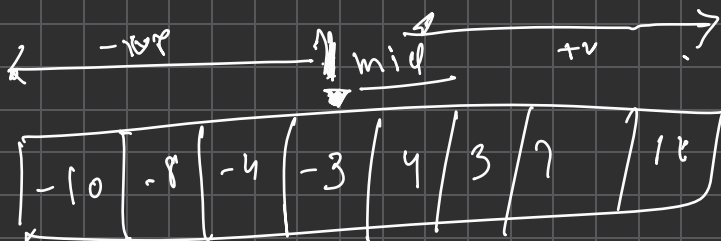
else

{

start = 0

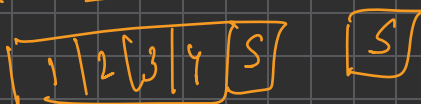
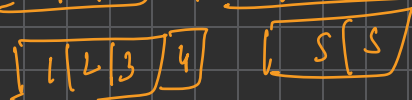
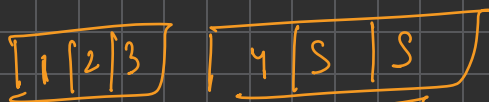
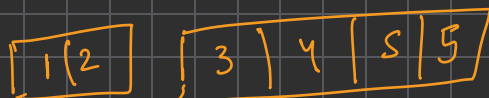
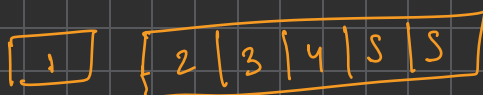
end = mid+1

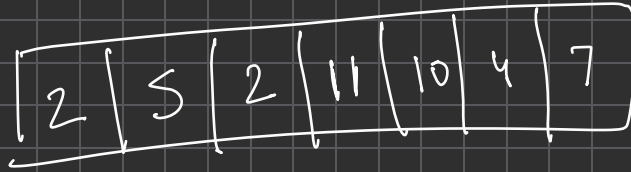
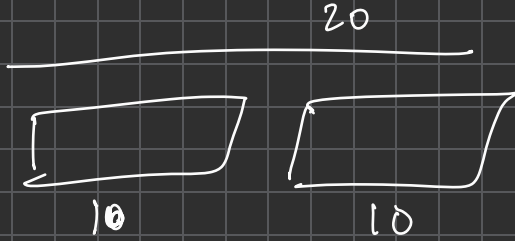
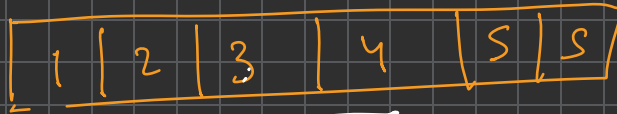
}



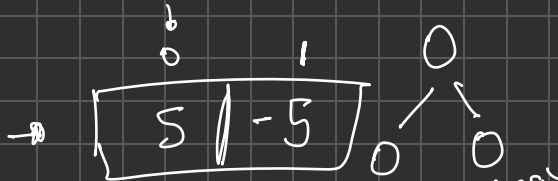
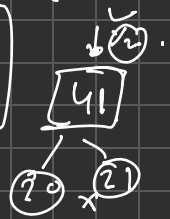
✓ True
False

Two
↓
Subarray
divide
Left Right

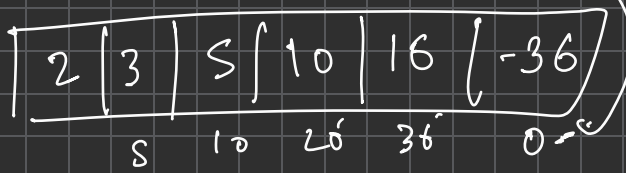




Answer



Total Sum = 0
 sum = 0
 Target Sum = 0
 mit 90% = 10



Prefix sum, Suffix Sum

Prefix →

2	3	5	7	8	1	6	9
2	5	10	17	25	26	32	41
41	39	36	31	24	16	15	9

$x = ?$
smallest -ve number

$x = 20$

3

$x = 16$

5

$x = 14$

6

$x = 4$

smallest +ve

20

11

15

23

21

20

15

