DS & Algo

Algo 2 : Sum of all num till

$$n.$$

$n = 10$

$sum = 10 + 9 + 8 + 7 + 6 + 5 + 4 + 3 + 2 + 1$

$n = 10$

$\boxed{n = 10}$ $\longrightarrow$ 1

$10 + 9 + 8 + 7 + 6 + 5 + 4 + 3 + 2 + 1 + 0$

$(10-1)$ $(10-2)$ $(10-3)$ $(10-4)$ $(10-5)$ $(10-10)$

$\longrightarrow$ $\longrightarrow$ $\longrightarrow$

loop

loop
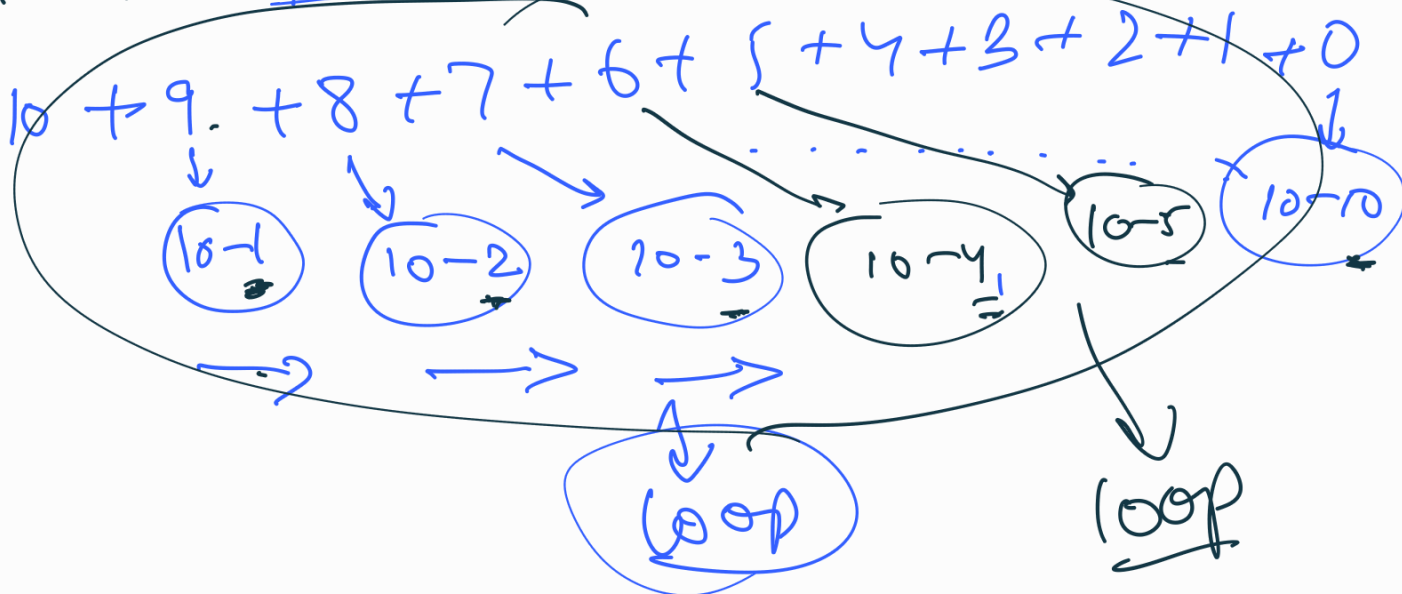
$10 + \big(Sum\big)$ of all num till 9

$10 + 9 + \big(Sum\big)$ of all num till 8

$\boxed{sum = 0}$ $\longrightarrow$ 2

~~while~~

$\boxed{counter = 1}$

1	2	3	4

while counter < 10 {

LS

$$sum = sum + n$$

10	19	27

0	10	19

10	9	8

$$counter = counter + 1$$

2	3	4

1	2	3

$$n = n - 1$$

9	8	7

10	9	8

iii) print sum