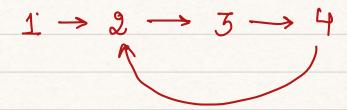
[Baric flow] For Loop -1 [New Logical Pooblems] For Loop-2

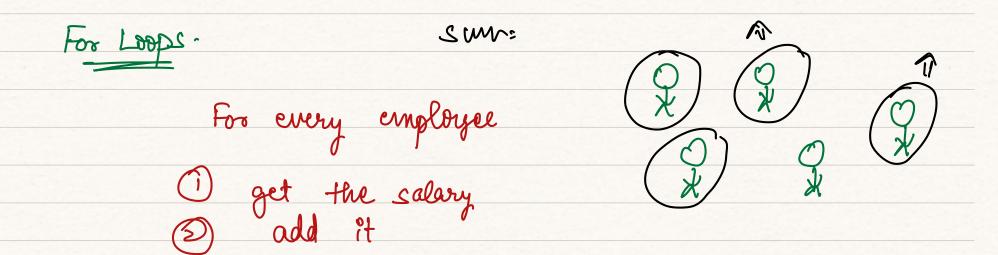
Oues. Print number from 1 to 10

3

Order of execution

- 1. Initialisation
- 2. condition check
- 3. Loop work
- Tebqu 'Y





```
Point numbers from L to L for (int l=1; l < l > 0) {

while (l < l > l > 0) }

l < l > 0 }

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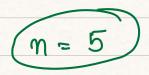
l < 0 }
```

```
Print from 1 to n.

int n = ccu \cdot next Int();

for (int i = 1; i = 2n; i + + 1 \neq 3)

3 S \cdot 0 \cdot Pln(i);
```



| l | i <= 5 | Output | 1+1 |
|---|---------|--------|-------|
| 1 | true | 1 | 2 |
| 2 | true | 2 | 3 |
| 3 | tore | 3 | 4 |
| 4 | toue | 4 | 5 |
| 5 | touc | 5 | 6 |
| 6 | false — | | Break |

```
int n= scu. next Int ();
     int digit = 0',
for (ind i=n; i>O; i=i/10) {
     → digit = c /010;
S.D.Plu (digit);
                                               digit
SO.Ph (digit); 1
n= 154
n=
                 (0/0)
                 digit Output i=i/10
       170
        true
      true
      toue
        false
                                    Break
```

Print the first and last digit of a number.

in = 1965 - 15

MSD = LSD

(first)

(last)

digit)

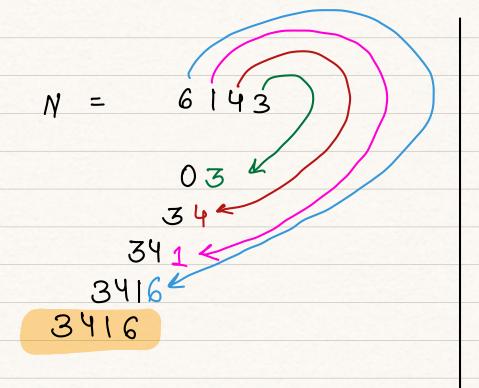
 $\eta = 6105 \longrightarrow 65$

Ques: Given a positive number N, reverse the number.

N = 6123 $\longrightarrow 3216$ N = 712 $\longrightarrow 217$ N = 1500 $\longrightarrow 1$ N = 270 $\longrightarrow 72$

Add the digit d to the back of the number or "617"

9×10+0



$$N = 7-834$$

 $9eV = 0$
 $9eV = 9eV + 10 + (78349/010)$
 $9eV = 0 + 10 + 4$
 $9eV = 0 + 10 + 4$

$$9w = 9w + 10 + (783\%010)$$

$$= 4 + 10 + 3$$

$$= 43$$

$$N = 783/10 = 78$$

91W = 96N + 10 +
$$\left(\frac{78}{9}\right)^{0}$$
 | 010)
= 43 + 10 + 8
= 438)
N = 78/10 = 7

$$9ev = 9ev + 10 + (7 \% 10)$$

$$= 438 + 10 + 7$$

$$= 438 + 8$$

$$N = 7/10 = 0$$

1 get last digit [Nº/010]

2 add to the back of seev [seev * 10 + digit]

(3) N = N/10



Bank Account -2

Bolance

total no of operation

For each operation

Ly 1 type Ly 2 Amount

(add) type =)

type = 2 (Subtract)

(amount > bolance) Insufficient Fands

difference

Bolance =
$$\frac{6000}{t} = \frac{1500}{3}$$

```
long bolonce = scn. next long ();
int t = Sch. next Iut ()
while (t>0) &
        int type = scn. next Zut();
       long amount = Sch. next Long ();
          if (type = = 1) &
                balance = balance + amount;
S.O.Ph(balance);
         3 cla 5
```

```
if (amount > balance) {
S.O.Pln ("Insufficient fands");
3 che ?
       Solance = bolance - amount;
     S. O.Ph (balance);
```

Sum of Odd & Sven Index digit

```
int n = Scn.next Int();

int oddsem = 0;

int evensum = 0;

int index = 1;
```

```
while (n > 0) S
      int digit = n % 10;
      if (index %2 == 0) &
            evensum = cuensem + digit;
      & else &
            oddsum = oddsum + digit;
    index ++;
    m = m/10;
```

Armstrong Numbers!

Sum of cubes of each digits is equal to number itself.

Put n = Scn. next Int();

int 2=1;

while (i <= n) &

// check whether is Armstrong

int num = is

while (num >0) }

int digit = num /010;

count of digits int t = Scin. next It(); while (t >0) of (n20). int n = Sch. next Int (); ind count = 0; if (n==0) & count = Ø 1 count = 1; While (n>0) S n = n/10; Count ++; S. D. Pln (count);