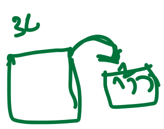
Typecasting

"item1" + "item2" → string

long a = 10000, | a + b =>
int b = 2;

Implicit type conversion

Typecasting :-



desiredDatatype = (dataTypeneeded) (original Datatype)

double b = 7.123 .

int a = (int)(b);

int c = 20;

a = (b + c) → dataType// ???

→ 27.123

a = (int) (b + c);

a 27

H.W

long → int

doble → long

char → int

:

PNC you have try

double a = 5; // explicit.

a = 5.0 ?

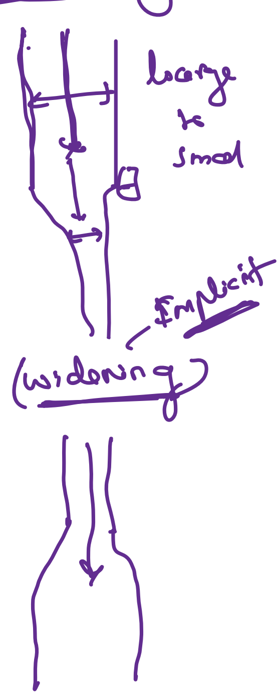
int b = (int) 5.7; × error

b=5 ;

int b = (int)(1000l)

int c = (int) (3.00f).

(narrowing) Explicit



While loop

⇒

1) initialising varible

2) condition

3) loop work

4) update (Inc / Dec)

false

out of loop.

D→ 1 → 2 → 3 → 4 — 2 until condition

// 1 → Initialisation fails

while (// 2 → Condition

// 3 → loop work

// 4 → update.

C →

→ 1, 2, 3, 4, 5, 6 →

int count = 1; //

while (count <= 6) {

// Ball

count++;

}

inc / dec

inc

basic analogy

For loop

Syntax

only once

repeat

only once

for (initialize ; loop condition ; update) {

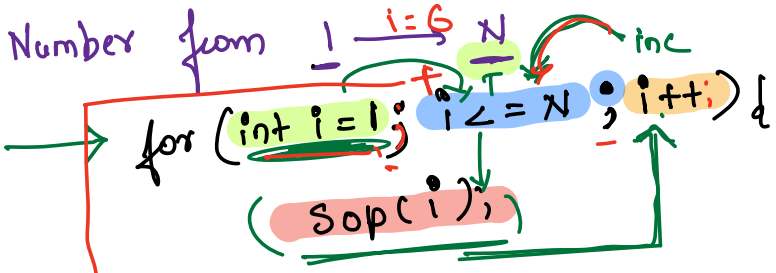
// loop work.

}

2 3 4 → will repeat

outside of the loop

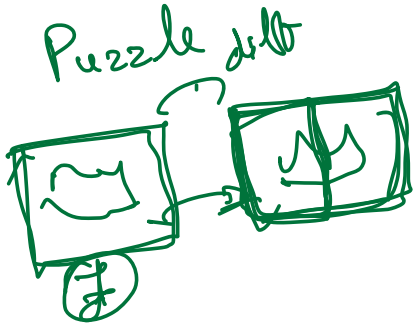
Print Number from 1 → N



i = 1
N = 5

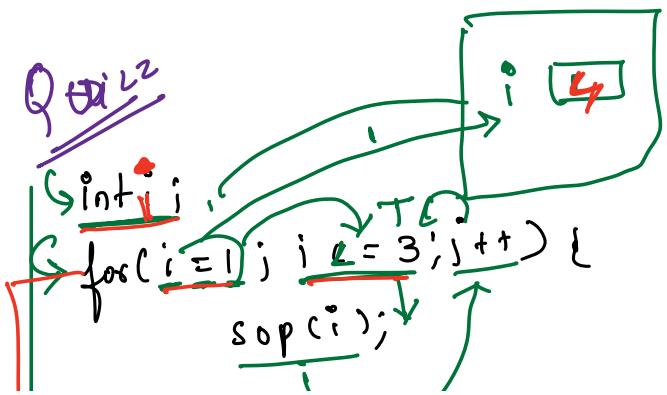
i <= 5 ? → concept

i	i <= N	O/P	i++
1	T	1	2
2	T	2	3
3	T	3	4
4	T	4	5
5	T	5	6
6	F → time out of loop.		

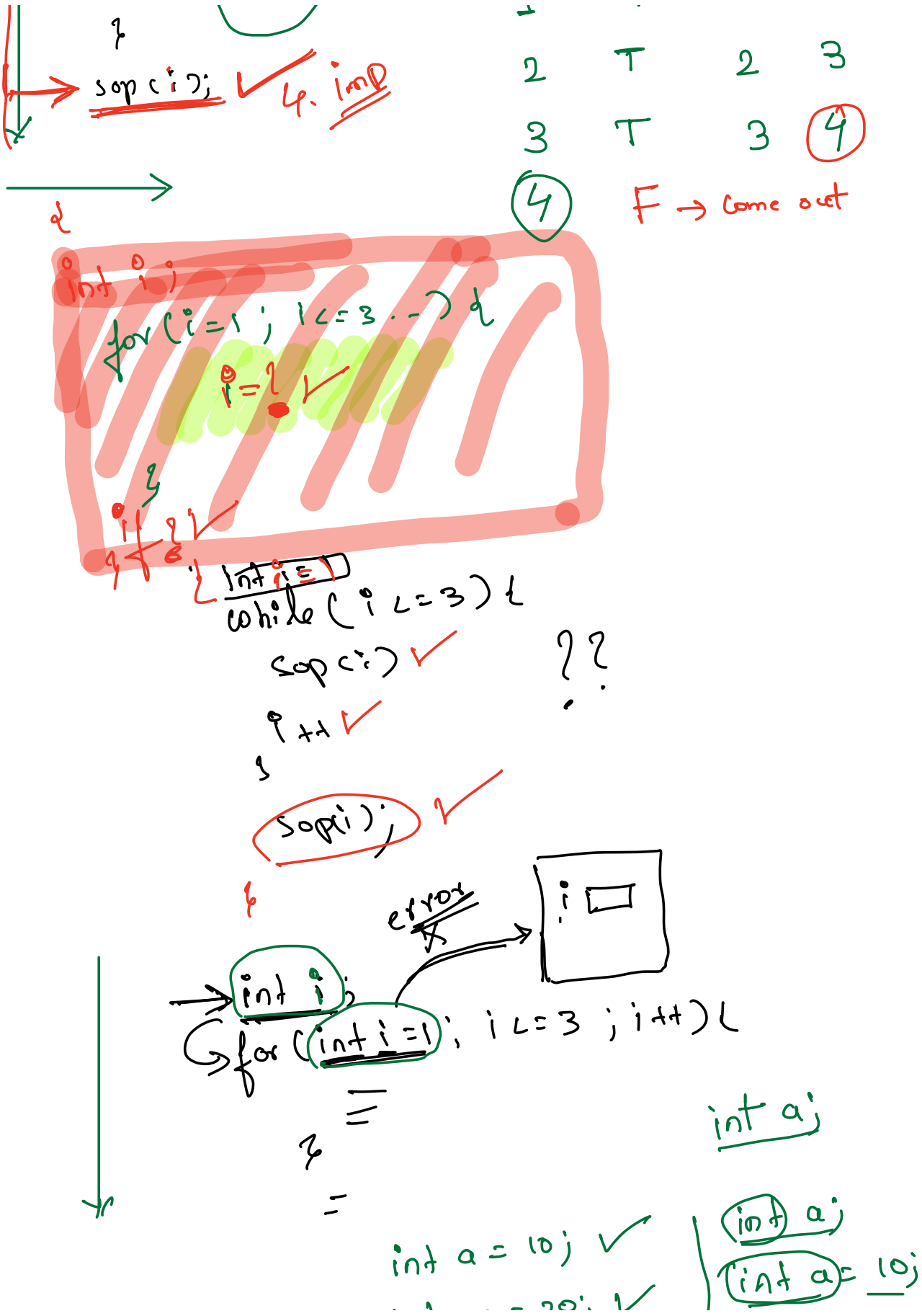


Q → Using for loop → print odd Numbers from 1 → N.

Quiz

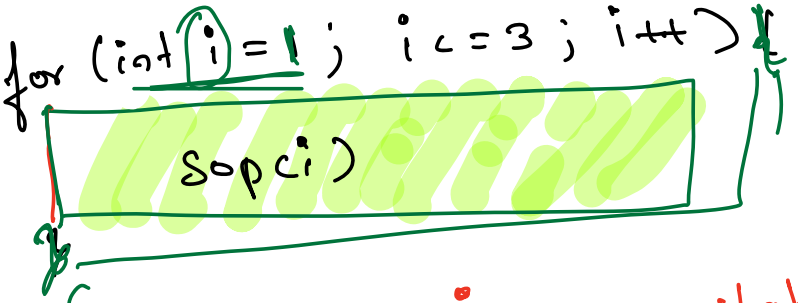


i	i <= 3	O/P	i++
1	T	1	2


}
sop(i);
4. imp
2 T 2 3
3 T 3 4
4 F → come out
int i;
for(i=1; i<=3; --){
i=1
{
int i=1
while(i<=3){
sop(i);
i++
}
sop(i);
??
error
int i;
for(int i=1; i<=3; i++){
int a;
int a = 10;
int a;
int a = 10;

int a = ...

Quiz



sop(i); ✗ i ✗ → compilation error

Q → Given a number N → print last digit of N

N → 1563 → 3

sop(N % 10);

→ R

1563 — 3

↓

1560 + 3

10 R

→ print first digit and last digit. // for loop

N = 6175 → 6

5.

?

6175 → 617 ?

n/10

617 → 61

n/10

61 n/10 → 6

first digit

```
int N = sc.nextInt();
int ld = N % 10;
int fd = 0;
for (int i = N; i > 0; i = i / 10) {
    fd = i % 10;
}
sop(fd);
sop(ld);
```

fd = 6

(1)

N = 6175

ld = 5;

fd = 6;

overwritten

i	i > 0	fd	i = i / 10
6175	T	5	617
617	T	7	61
61	T	1	6
6	T	6	0
0	F → comeout of loop		

O/p → 6.
5.

i % 10 → last digit

Doubt

```
long int bal = sc.nextInt();//1000
int T = sc.nextInt();
while (T > 0) {
  int type = sc.nextInt()
  int amt = sc.nextInt();
  if (type == 1) {
    bal = bal + amt.
  } else {
    if ( amt <= bal ) {
      bal = bal - amt;
    } else {
      sop("Insufficct bal");
    }
```

long ← int

N = 1000

T → 3

1 500

2 1400

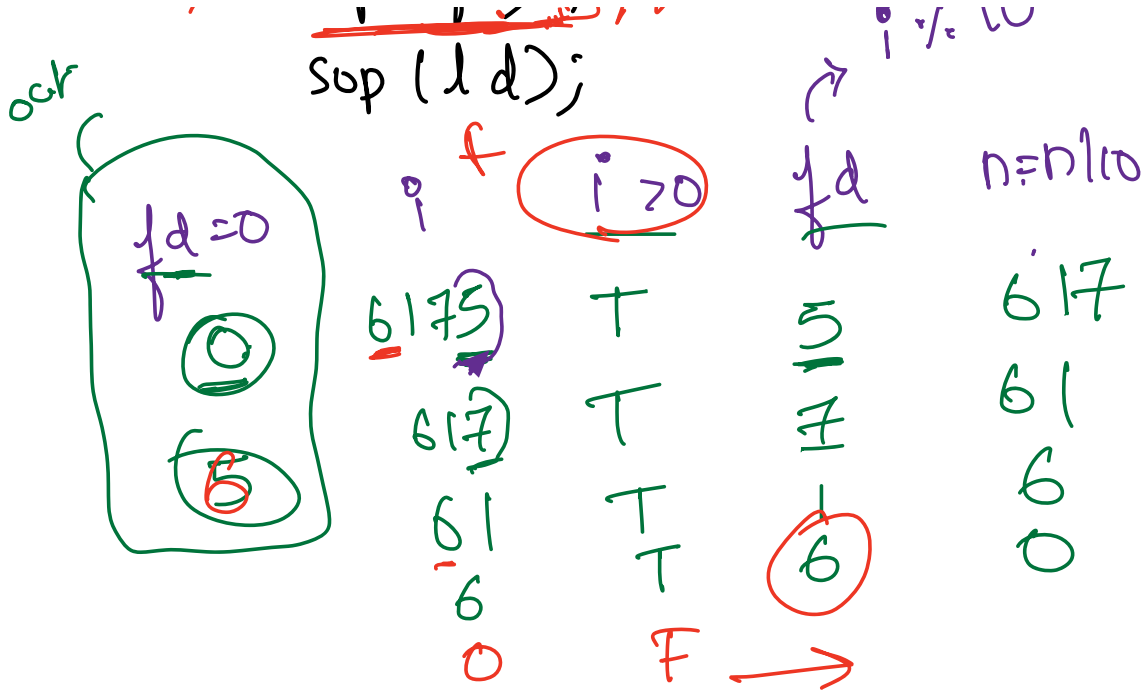
2 500

1 → credit add.

2 → debit sub

withdraw → bal ≥ amt →

```
int N = sc.nextInt();
int ld = N % 10;
int fd;
for(int i = N; i > 0; i /10) {
  int ld = i % 10;
}
sop(ld); // → error
```



https://www.interviewbit.com/snippet/8a05a597593b67d13167/