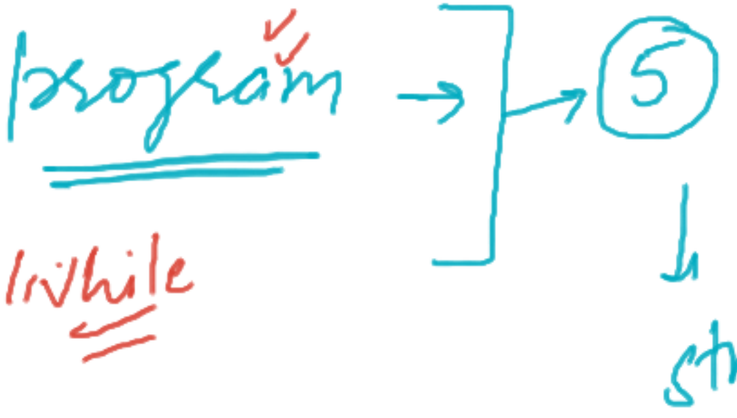
for → How many times need to execute the stmts → 10,200

while → execution of stmt will be continued till the condition is true.



1 → true
2
3 4 5
false

12
50
51

5

App → While → Stop → Bugs → find

for → App ⇒ 20 Bugs

Example

Store → for → 15 → job

for { Day 1 → customer 10-7
Day 2 → 15
→ 15 }

while { Day 1 → 20 → 10-7
Day 2 → 5 }

for & while :- >=0 ← 467 Rev using Loop.

7 6 4

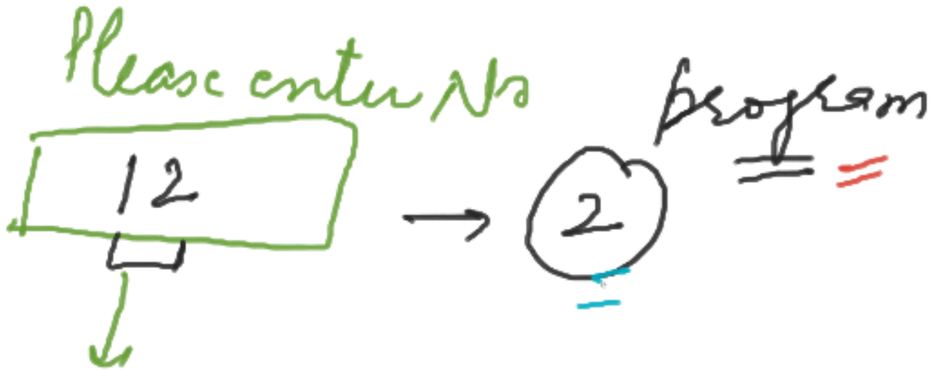
↓ ↓ ↓

1 2 3

[100000]

4267 → 4

23 → 2



> 0

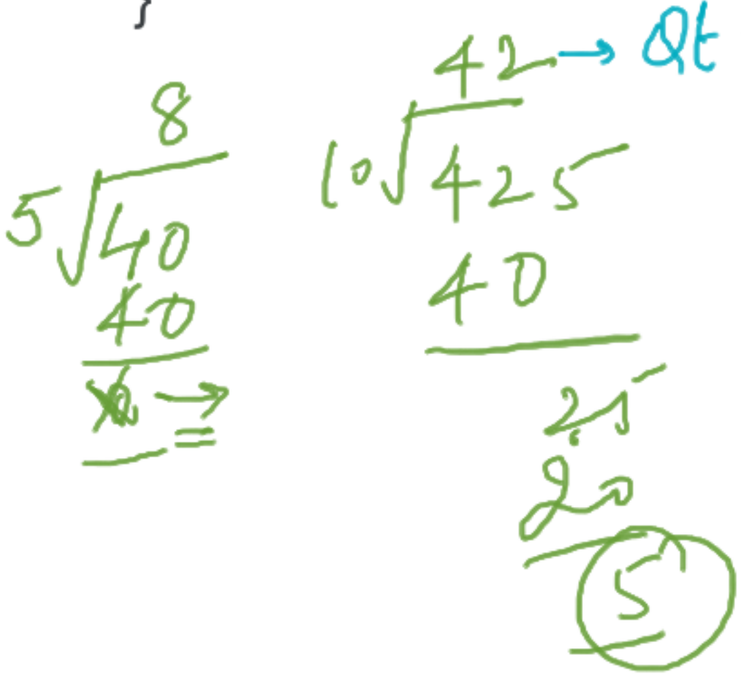
Rev

21

2. 4678 →

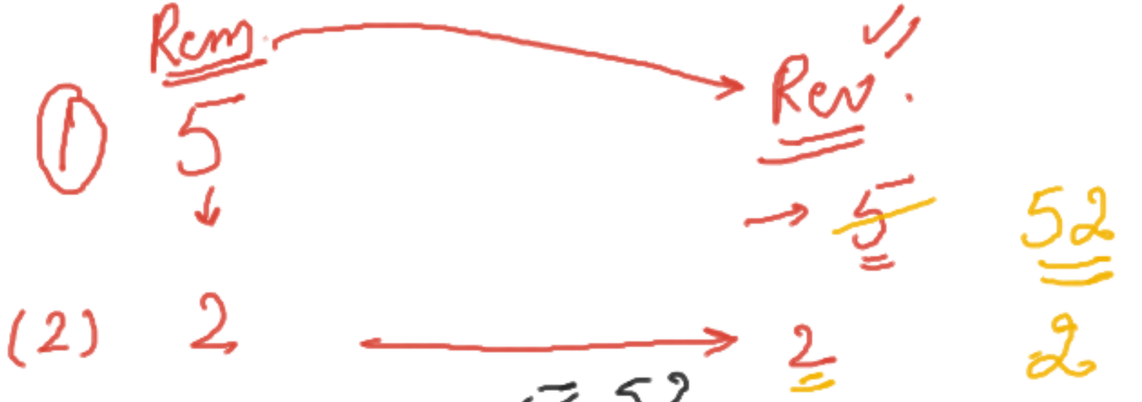
Syntax:

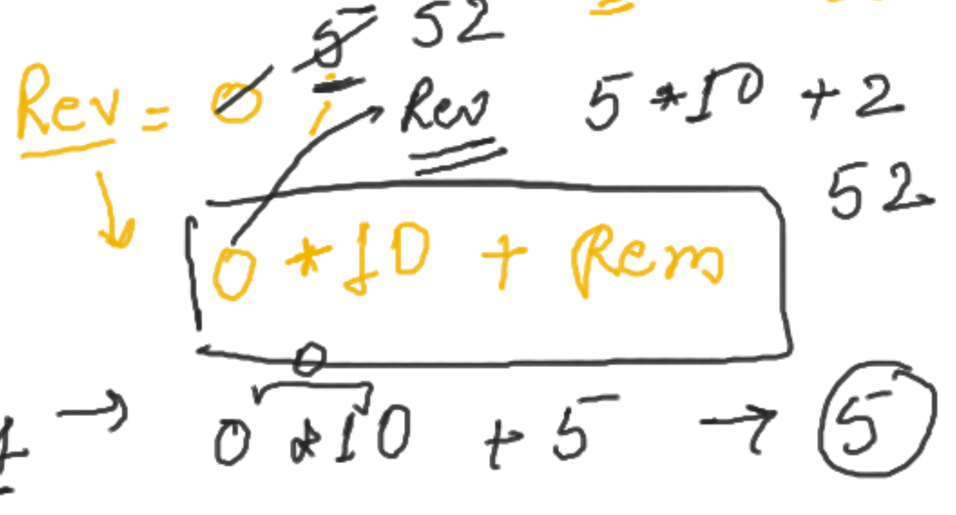
```
initialisation
while(condition){
    Stmt;
    inc/dec.
}
```



Stp1 → 425 % 10 → 5 → (1)

Stp2 → 425/10 → 42





52 * 10 + 4

520 + 4 = 524

using While Loop (find Reverse)

1. int num = 425 → 42 → 4
2. Reverse → 4 2 5
3. Remainder →

1. rem → num % 10
2. num → num / 10

rev = rev * 10 + rem;

Sum of digits of a Number → 4621 → 13

check whether number is palindrom or not → 111 ← → 111

check whether a number is Armstrong or not → MAM ←

1331 ←

Armstrong

153 → Yes

$1^3+5^3+3^3$ → 153 → 1+125+27

→ 153

2 14 → X Not a Armstrong

$2^3+1^3+4^3 = 8+1+64 \rightarrow 65+8 = 73$

Do while :- Will execute the stmt without checking any condition.

1 → LD

Syntax :

```
initialisation
do {
  stmt;
  inc/dec
} while (condition);
```