

⇒ Interview flow

no. of question : 3

each of marks : 10 , total = 30 marks

passing % age = 60 %

→ must go with steps :-

- 1) clearly understand question & explain
- 2) provide logic
- 3) short dry run
- 4) tell time complexity

2.5

2.5

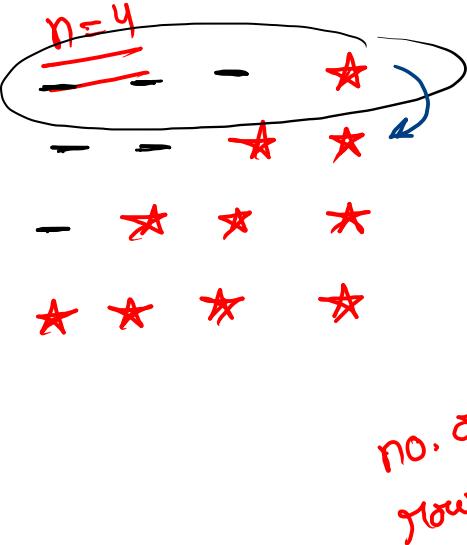
2.5

2.5

}

Revision

- ↳ Programming Language & Operators
 - ↳ variables
 - ↳ Conditions and logical operators
 - ↳ if else cond. (ladder)
 - ↳ nested if else
 - ↳ switch statement
- ★ ↳ characters and strings
- ★ ↳ for loops
- ↳ while and do while loop
- ★ ↳ Patterns (Template)
 - ↳ functions (return statement)
- ★ ↳ digit traversal ($/10$, $\%10$) & number theory
- ★★★ ↳ array (Printing, searching, storing and upgradation)
- ★ ↳ Brute force approach (Permutation & Combination)
- ★ ↳ Time Complexity & Space Complexity



```

int sp = n-1;
int st = 1;
for(int i=0; i<n; i++) {
    for(int j=0; j<sp; j++) {
        System.out.print(" _ ");
    }
    for(int j=0; j<st; j++) {
        System.out.print(" * ");
    }
    st++;
    sp--;
    System.out.println();
}

```

\Rightarrow digit traversal

for()

$n = 3$

num = 1 ✓

num = 2 ✓

num = 3 ✓

123

reverse

102

int ans = 0;

for(int i=0; i<n; i++) {
 num = sc_____ ;

ans = ans * 10 + num;

}

ans = 123; result = 321

int rem = ans % 10;

(3)

(2)

(1)

int result = 0;

result = result * 10 + rem;

(3)

(32)

(321)

ans = ans / 10;

(12)

(1)

(0)

while (ans > 0)

Note :-

$$\underline{\underline{x \% y = x}}$$

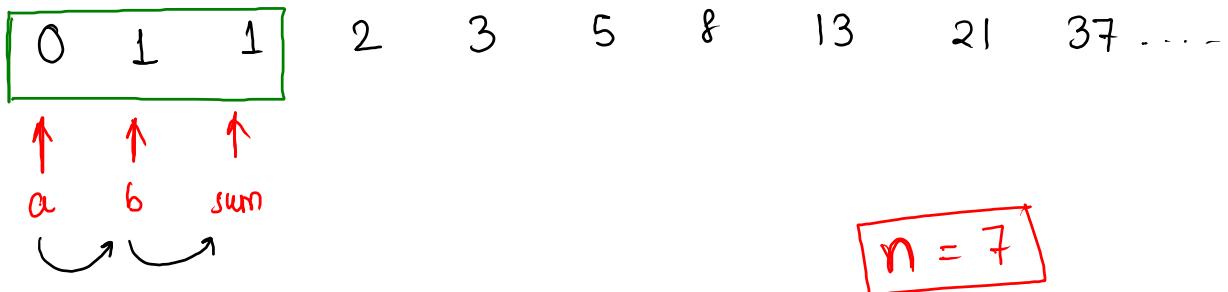
if ($x < y$)

$$1 \% 10 = 1$$

$$3 \% 20 = 3$$

$$4 \% 5 = 4$$

\Rightarrow Fibonacci



```
for( _____ ) {  
    sum = a+b;  
    a = b;  
    b = sum;  
}
```

functions

main() {

 fun1()
 fun2()
 fun3()

}

3 lines

fun1() {

// task 1 → 50 lines

}

fun3() {

// task 3 → 70 lines

}

fun2() {

// task 2 → 100 lines

}

Types:-

parameterised :-

fun1(3, "Kunal");

fun2();

:-

non-para.

main()

fun1(); ✓

fun1(3, 5)

fun1(3);

}

fun1()

=====

fun1(int a)

{}
b

fun1(int a, int b)

}

```
void  
public static int fun1( ) {  
    [ ]  
    return 0 ;  
}  
void → nothing  
int
```

boolean
String
int[]
boolean[]
String[]

~~Swap x & y~~

$x = 10, \quad y = 7$

~~logic~~

$\text{int temp} = x;$ $\longrightarrow 10$

$x = y;$ $\longrightarrow 7$

$y = temp;$ $\longrightarrow 10$

$x = 7, \quad y = 10$

0	1	2	3	(4	5	6	
arr	5	3	2	-10	2	7	-2



int [] arr = new int [size] ;

arr.length

int a = arr[i] ; (access)
 arr[4] = 2 ; (update)

ans = 12

int rem = ans % 10; \longrightarrow 2 ans

ans = ans / 10; \longrightarrow 1 carry

P ω R
 P ω_0 R
 C ω R
 C ω_0 R

template

$i^{\circ}=0, j^{\circ}=0$

$i^{\circ}=0, j^{\circ}=0$ if ($i^{\circ}=j^{\circ}$)

$i^{\circ}=0, j^{\circ}=i^{\circ}$

$i^{\circ}=0, j^{\circ}=i^{\circ}+1$

