CS & IT ENGINEERING

Chapter 02

Programming in C Control Flow Statements Lec- 06



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```
Prod = 1;

for (i=1; i<=5); i++)

{

Prod = Prod + i;

}

printf("/d", Prod);
```

for (n = 1; h<= 10; n++)

factorial code

}

Perfect No. \$70

10 to 20

Perfect No Code

$$e^{x} = 1 + \frac{x}{21} + \frac{x^{2}}{21} + \frac{x^{3}}{31} + \cdots$$
 in terms

i/P: x, n (no. of terms)

$$\frac{x}{4} + \frac{x}{4} + \frac{x}{4} = 4$$

$$\frac{x}{4} + \frac{x}{4} = 4$$

$$\frac{x}{4} + \frac{x}{4} = 4$$

float sum = 0.0

for
$$(i=0; i=3; i+1)$$
 ab
 $y = xi$; $y = code$ for factorial
 $z = fact(i)$;
 $z = fact(i)$;

Pattern pointing

1 12 12 3

123

12345

Math

1 12345

2 12345

3 12345

4 12345

5 12345

5 times

tor(i=1; i<=5; i+)
Same

Same A b

- print("15302/2)]

```
2345
                        tor(Row=1; Row<=5; Row++)
2345
1234
                                for (cal=1; cal = ; cal++)
      Row
              Col
                      last val cal
              1,2,3,4,5
              1,2,3,4
              1, 2,3
```

```
tor(Row=1; Row<=5; Row++)
        for (cal=1; cal <= 6-Row; cal++)
                printf ("/d", cal);
```

Every now (5 now) -> Some space - Some * for (Row=1; Row<=5; Row++)

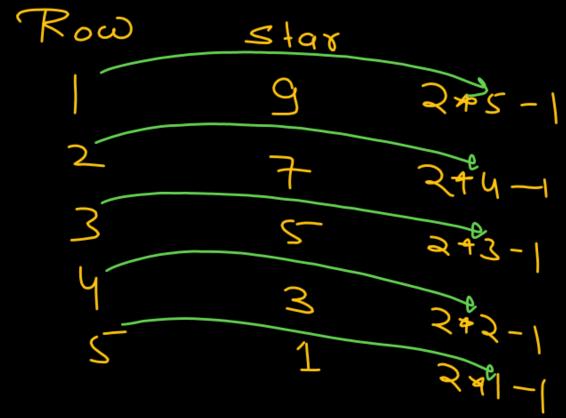
```
for (Row=1; Row<=5; Row++)
                                    for(space=1; space<=5-Row)
                       Math
                                               printf (" ");
                                  for (star =1; star <= Row; star ++)
                                              printf (" *");
                                   >rint("\n");
Row
                     2. ma
```

Row space = C-Row
1 2 3 4 5

5 min

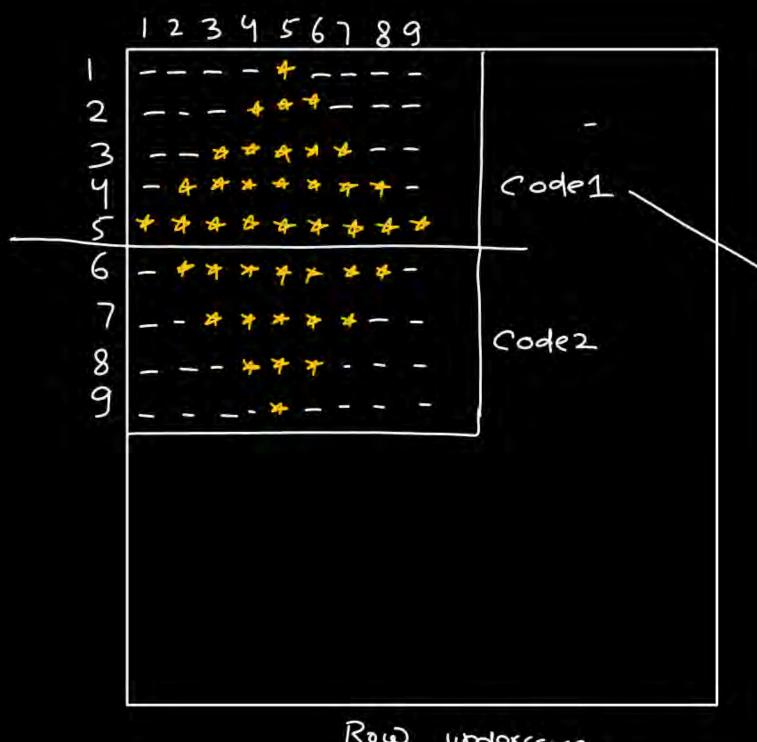
too(Row = 1; Row<=5; Row++) tor(space=1; space<=5-Row; spacett) print(" "); tor(star=1; stgr <= 2* Row-1; star+) >2 (2) H("/2")!

Row Space #ofspace: Row! 0 234

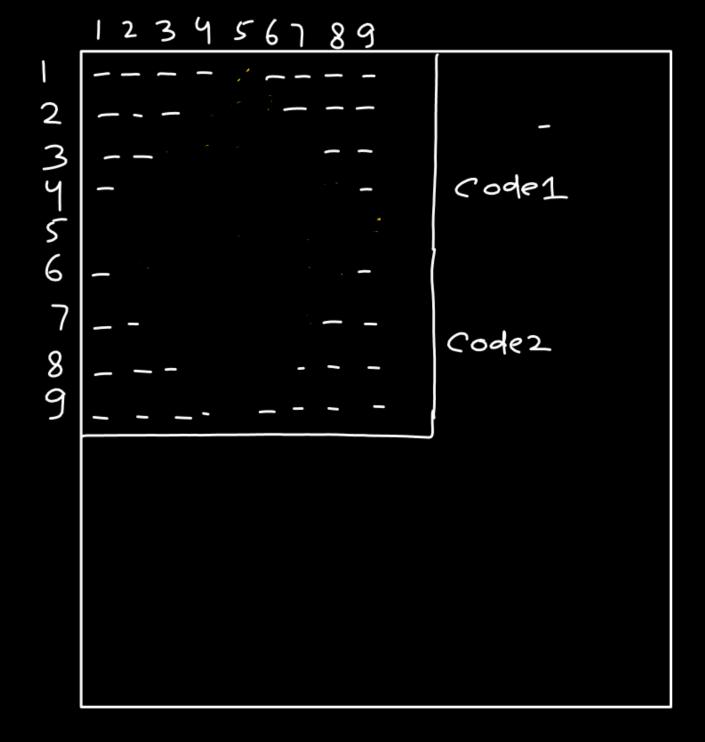


· 1929 4 Mishuman 2345 first Semi colon 4 4 4 While × Row Star 2 # (6-ROW) -1 9 2*5-1 2 2+4-1 5 2+3-1 Row Space 2+2-1 #ofspace: Row! 0 241-1 NM

9 x 9 P 81 times Some underscore then Some star then same No. of 9707289kau



for (Row=1, Row<=5; Row++) for (under = 1; under <= 5-Row; under +1) printf("-"); tor(star=1; star <= 2+ Row-1; star++) print("+"); for (under =1; under <= 3-Row; under +1) >xiutt (,, ,);



M21 \otimes for (i=1; i<=n; i=1 + 3) 99% Students 24 Hrs for(j=i; j <= n; j ++)debendent printf ("Pankaj"); # of times printf executed

Next class

loop

$$\begin{array}{r}
 \lambda = 6 \\
 123456 \\
 12345 \\
 123 \\
 123 \\
 12 \\
 1
 \end{array}$$



