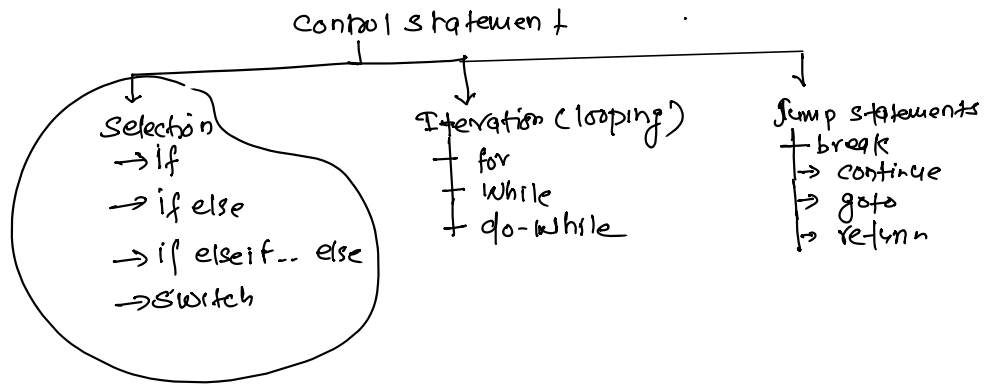


Loops in C programming



Loops in C programming

for

```
for (initialization; condition; increment/dec)
{
}
//
```

while

```
while (condition)
{
}
//
```

do-while

```
do
{
} while (condition);
```

hello

loop?

To execute any statement/group of statement n/multiple times;

Q. Print Hello five times

```
printf("Hello");
printf("Hello");
printf("Hello");
printf("Hello");
printf("Hello");
```

} 5 times
Hello

Example - for (int i=0; i<5; i++)

```

{
    printf("Hello");
}
//
```

i=0	0<5	TRUE	Hello.
i=1	1<5	TRUE	Hello.
i=2	2<5	TRUE	Hello.
i=3	3<5	TRUE	Hello.
i=4	4<5	TRUE	Hello.
i=5	5<5	FALSE	

DAY #15.3

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for loop

```
for (int i=0; i<5; i++)
{
    printf("Hello");
}
```

→ for loop must have two semicolons

→ Initialization is optional inside for loop

```
int i=0;
for (; i<5; i++)
{
    printf("Hello");
}
```

5 time Hello

```
for (int i=0; i<5; i++)
{
    printf("Hello");
}
```

0 < 5 T
1 < 5 T
2 < 5 T
3 < 5 T
4 < 5 T
5 < 5 F
Hello

i=0 1 2 3 4
1 1 1 1 1
for (i=1; i<5; i++)
{
 printf("Hello");
}

i=1	1 < 5	T	Hello
i=2	2 < 5	T	Hello
i=3	3 < 5	T	Hello
i=4	4 < 5	T	Hello
i=5	5 < 5	F	Hello

DAY#15.4

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for (int i=0; i<10; i++)

-2147483648

+ 2147483647

INT-MIN

INT-MAX

```
for (int i = INT-MIN; i < INT-MAX; i++)
{
    printf("In Hell. Shiva Mishra %.d", i);
}
```

-50000 +5000

-10 +10

-10 -9 -8 -7 -6

-4 -3 -2 -1 0

1 2 3 4 5 6

7 8 9

for (i=-10; i<10; i++)
{
 =
}

4 B#