

Q: `int i; for(i=0; i<12; i++) { if(i==3) break;
SOP(" "+(i++));`

Q: `int k=1, i=2;
while(++i < 6)
k*=i;
SOP(k);`

How many time loop will execute & output?

Q: In which loop, is the test condition checked before entering the loop?

Q: What are the four part of the loop?

Q: What purpose is served by iteration?

Q: What is null loop?

Q: Give one example of infinite loops.

Q: Write the output

```
Class Loop { public void main() { int I; for(i=0; i<50; i++)  
{ if(i==6) break; SOP(i); } } }
```

Q: `class Loop { public void main() {
Int I ; for(i=0; i<100; i++) { if(I == 5)
SOP(i); } } }`

Q: `class Loop{ public void main() { int I;
For(i=0; i<4; i++) { SOP(i); } } }`

Q: `class Loop { public void main() { int x, y;
For(x=0; x<50; x++) { if(x == 10) break; SOP(x); } } }`

Q: `int i=60; while(true) { if(i<=12) break; i= i - 12; } SOP(i);`

Q: Distinguish between break and continue.

Q: Join the condition & Rewrite the code:

```
While( ch! = ' * ' ) { if ( ch = = ' ? ' ) break; if ( ch ! = ' \n ' ) continue; line ++;  
}
```

Q: Analyse the pgm and tell how many time it ll run x=5, y=50

```
While( x<= y ) { y=y/x; SOP(y); }
```

Q: Convert into do loop.

```
Int x, c; for( x=10 , c=20; c>10 ; c=c-2) { x++; }
```

Q: Convert into for loop

```
Int k = 20 ;
```

```
int i=0, sum=0; while( i<k ) { sum + = 1 ; i++; } SOP( sum );
```

```
For( int i=0; sum=0; i<k; i++) { sum +=1; SOP( sum ) ; }
```

Q: Output

```
Int m=2 ; int n=15 ; for( int i=1; i<5 ; i++) ;
```

```
m++ ; -- n; SOP ( m); SOP(n);
```

Q: 1

```
1 2 1
```

```
1 2 3 2 1
```

```
1 2 3 4 3 2 1
```

```
1 2 3 4 5 4 3 2 1
```

Q: State the difference between entry control loop and exit control loop.

Q: Rewrite the program using while instead of for

```
Int f=1, l; for( i=1; i<=5 ; i++) { f * = l ; SOP(f); }
```

Q: How many time will the following loop will execute ? What will be value returned?

```
Int x=1, y=50;
```

```
Do { ++x; y - =x ++ ; }
```

```
While( x <=10 ); return y ;
```

Q: Final value of ctr

```
Int ctr = 0;
```

```
For( int i=1 ; i<=5 ; i++)
```

```
For( int j=1; j<=5 ; j+=2)
```

```
++ ctr; SOP(ctr);
```

Q: This is a cat T.I.A.C

Q: State one similarity and difference between while and do while

Q: Sum of -ve +ve, even no , odd no and terminate the program if number is 0.

Q: Write a program in Java to accept a number and check whether it belongs to the Fibonacci Series (sequence) or not.