while

```
while ( condition )
{
  ___
  ___
}

int i=1;
while ( i <=10 )
{
  printf ("%d ", i );
  i++;
}
```

entry control
loop

do-while

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

int i=1;
do
{
  printf ("%d ", i );
}
while ( i <=10 );
```

exist control
loop

for

```
for(  ;  ;  )
{
  ___
  ___
}

int i;
for ( i=1 ; i <=10 ; i++ )
{
  printf ("%d ", i );
}
```

entry control
loop

```
1  2   3  4  5    6  7  8  9 10
1
1+2
1+2+3
1+2+3+4
1+2+3+4+5
```

```
n = user
sum = 0
i = 1
```

```
i=1 ;   i < n  ,  i++
for  printf ( u %d , sum ) ;
        sum = sum + i
```

10

---

break

- break is a keyword.
- break can be used either in loop's body or switch's body
- In loop , break is used to terminate execution of loop.

```
int i=1 ;
while ( age <=100)
{
  ___
  ___
  if ( —— )
    break ;
  ___
  ___
  age++ ;
}
```

Find output

```
main ( )
{
  int n = 5 ;
  do
  {
    printf ( "%d " , n )
    n -- ;
  }
  while ( n >0 );
}
```

5

n
5

4