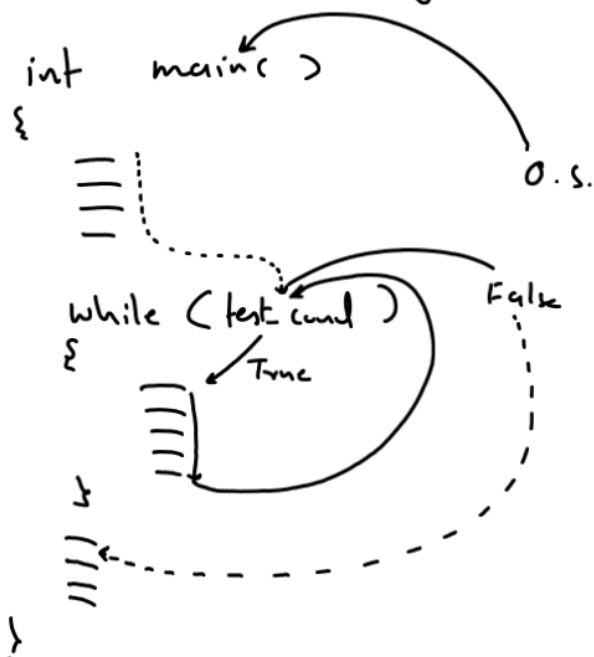


Loop (Iterative sort)

- ① while
- ② do... while
- ③ for

Syntax of "while" loop



WAP to display first 10 natural numbers.

WAP to display first 10 natural numbers in REVERSE order

```
#include <stdio.h>
int main()
{
    int i;
    i=1;
    while(i<=10)
    {
        printf("\n%d",i);
        i=i+1;
    }
    return 0;
}
```

4 - - 11
1 2 3
i

1
2
3
4
:
10

Guess The Output

```
#include <stdio.h>
int main()
{
    int i;
    i=1;
    while(i>=10)
    {
        printf("\n%d",i);
        i=i+1;
    }
    return 0;
}
OUTPUT:
=====
No output
```

Guess The Output

-2147483648 To 2147483647

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    int i;
```

```
    i=1;
```

```
    while(i<=10)
```

```
    {
```

```
        printf("\n%d",i);
```

```
        i=i-1;
```

```
    }
```

```
    return 0;
```

```
}
```

OUTPUT:

=====

1 to min neg val for int data
type

$\frac{10}{i}$

1

0

-1

-2

Guess The Output

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    int i;
```

```
    while(i<=10)
```

```
    {
```

```
        printf("\n%d",i);
```

```
        i=i+1;
```

```
    }
```

```
    return 0;
```

```
}
```

OUTPUT:

=====

unpredictable

Guess The Output

```
#include <stdio.h>
int main()
{
    int i;
    i=1;
    while(i<=10)
        printf("\n%d",i);
        i=i+1;
return 0;
}
```

OUTPUT:

=====

Infinite

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

Guess The Output

```
#include <stdio.h>
int main()
{
    int i;
    i=1;
    while(i<=10)
    {
        i=i+1;
        printf("\n%d",i);
    }
return 0;
}
```

OUTPUT:

=====

2 to 11

1 2 3 . 9 10 11
i

2
3
.
9
10
11

Guess The Output

```
#include <stdio.h>
int main()
{
    int i;
    i=1;
    while(i<=10)
    {
        i=i+1;
        printf("\n%d",i);
    }
    return 0;
}
OUTPUT:
=====
11
```

i = 1 2 3 4 ... to 11

while (i <= 10)
{
 i = i + 1;
}
printf("\n %d", i);
|

WAP to print first 10 natural numbers in REVERSE order

```
#include <stdio.h>
int main()
{
    int i;
    i=10;
    while(i>=1)
    {
        printf("\n%d",i);
        i=i-1;
    }
    return 0;
}
```

WAP to accept an integer from the user and print all the numbers from 1 to that number. Assume that the integer given by the user will be positive only.

SAMPLE OUTPUT:

=====

Enter an int:

5

1✓

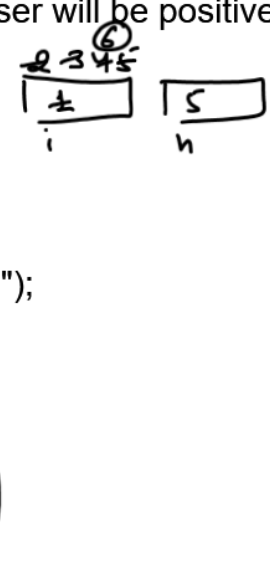
2✓

3✓

4✓

5✓

```
int main()
{
    int i,n;
    printf("Enter an int:");
    scanf("%d",&n);
    ✓ i=1;
    while(i<=n)
    {
        printf("\n%d",i);
        i=i+1;
    }
    return 0;
}
```



WAP to accept an integer from the user and print all the numbers from that number to 1. Assume that the integer given by the user will be positive only.

SAMPLE OUTPUT:

=====

Enter an int: 5

5

4

3

2

1