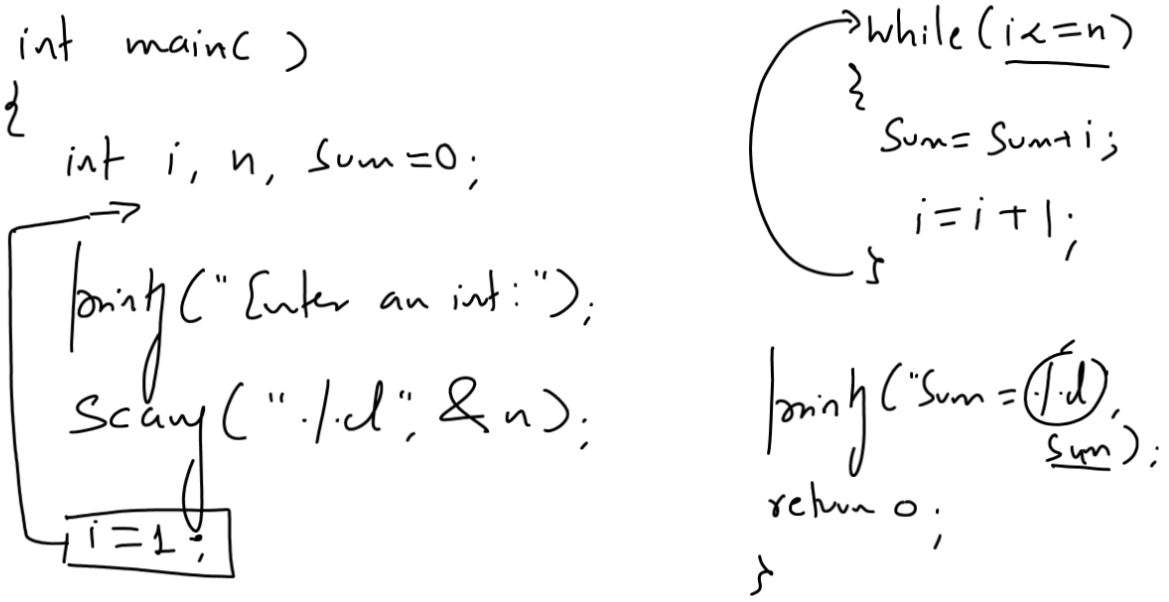


6 ~~5~~ ~~4~~ ~~3~~ ~~2~~ $i=1$, $n=5$, $Sum=0+3\ 6$

a) $Sum=0+1 \Rightarrow 1$ ✓

b) $Sum=1+2 \Rightarrow 3$ ✓

c) $Sum=3+3 \Rightarrow 6$ ✓

d) $Sum=6+4 \Rightarrow 10$ ✓

e) $Sum=10+5 \Rightarrow 15$ ✓

```
int main()
{
  int n, sum=0;

  printf("Enter an int:");
  scanf("%d",&n);

  while(n>=1)
  {
    sum=sum+n;
    n=n-1;
  }

  printf("Sum=%d",sum);
  return 0;
}
```

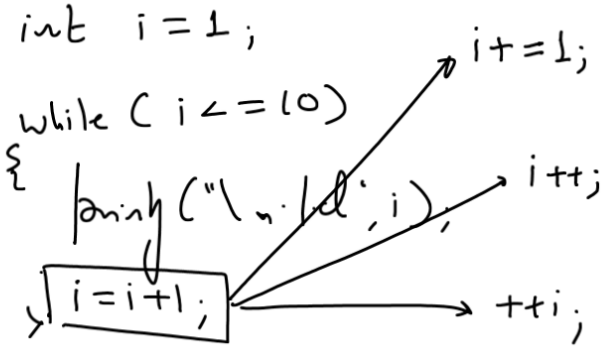
```
Enter an int: 5

Sum of even nos = 6

Sum of odd nos = 9
```

Using Shorthand and Incr/Decr Op

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



① `a = a + b;`

or

`a += b;`

② `x = x * y;`

or

`x *= y;`

③ `p = p / q;`

or

`p /= q;`

④ `a = a+b+c;`

`a += b+c;`

+=
-=
*=
/=
%=

Shorthand op
or
Compound op
or
Arithmetic - Assignment

Unary Incr Op

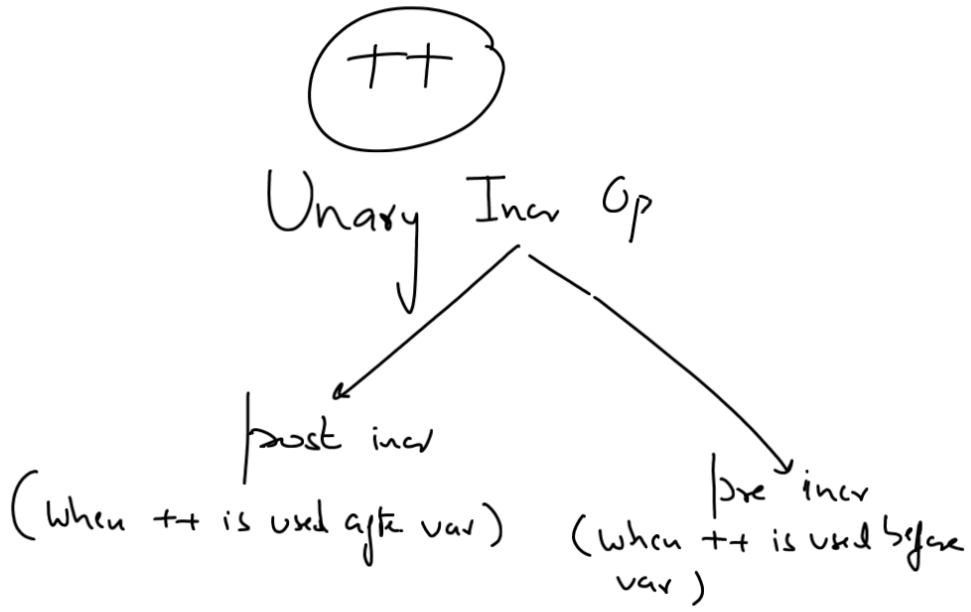
```
int a=10;

a=a+1;

printf("%d",a);
```

a++; post inc

++a; pre inc




```
int a, b=10;
a = ++b;
```

a = 11, b = 11

++b;
a=b;

```
pf("%d %d", a, b);
```

11 11

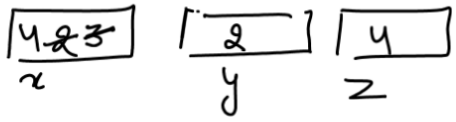
```
a = b++;
```

a=b
b++;

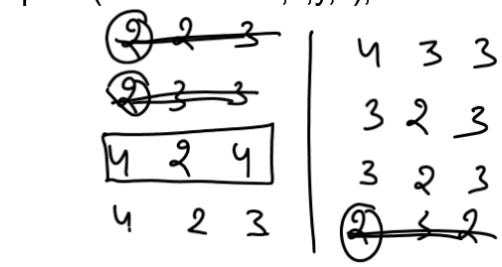
a = 10, b = 11

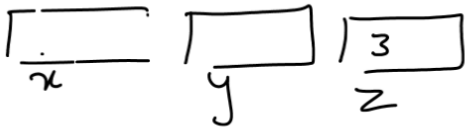
```
printf("%d %d", a, b);
```

10 11



```
int x=2,y,z;
y=x++;
z=++x;
printf("%d %d %d",x,y,z);
```





```
int x=2,y,z;
y=++x;
z=x++;
printf("%d %d %d",x,y,z);
```