

C Programming

Day06.B

2017.09.23

Condition

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C compiler treats

0 : false
non-zero : true

↑
1, 200, 300, 3.14, 0.0001

```
int a = 10;
```


// ← returns (a + 1);

1 ← returns (a > 1);
(true)


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

assigns

compute a+1 and returns the result 11

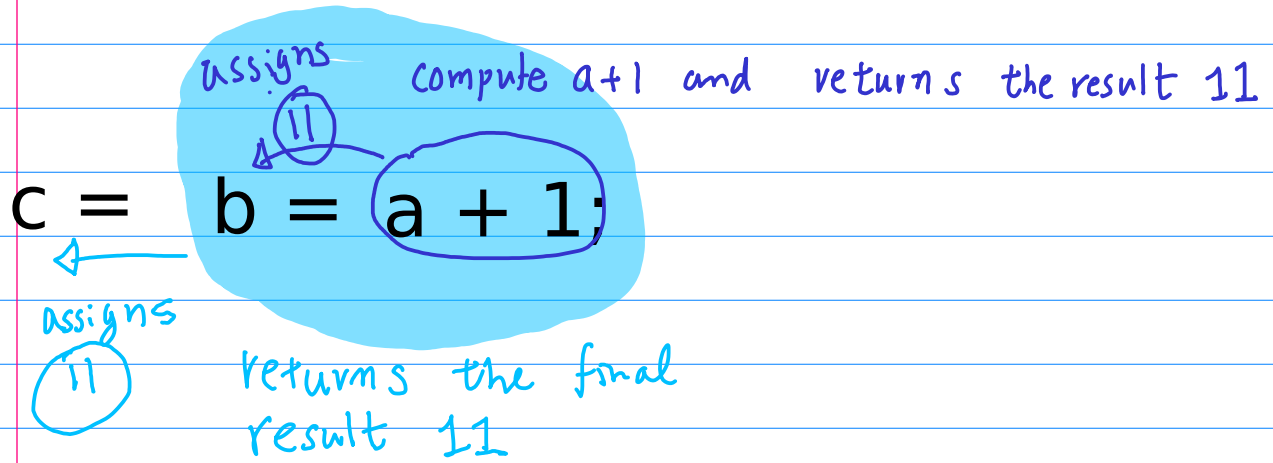

b = a + 1;

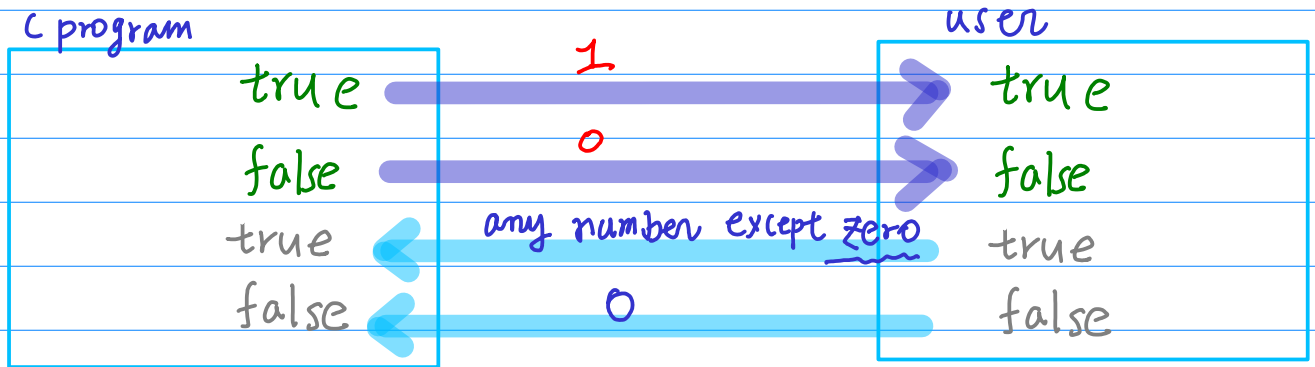
assign


c = (a > 1);

compute a>1 and returns the result 1

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





```

int a = 10;
if (a > 1) printf("true condition\n");
else       printf("false condition\n");

```

(1) ← true
 (10 > 1)

evaluate (compute)
 the return result ⇒ 1

```

if (1) printf("true condition\n");
else   printf("false condition\n");

```

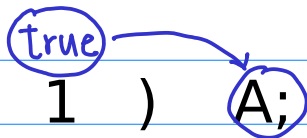
true → the condition is met → execute this

```
if ( 1 ) printf("true condition\n");  
else     printf("false condition\n");
```

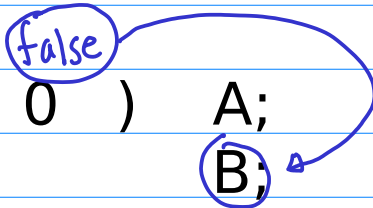
```
if ( 3.14 ) printf("true condition\n");  
else     printf("false condition\n");
```

```
if ( -999 ) printf("true condition\n");  
else     printf("false condition\n");
```

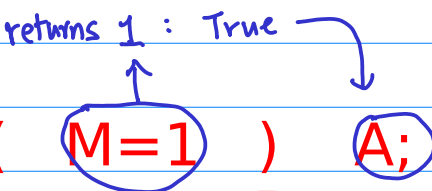
if (1) A;
else B;



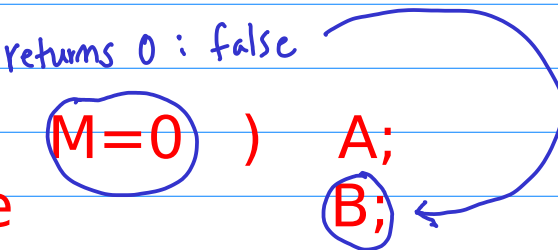
if (0) A;
else B;



returns 1 : True
if (M=1) A;
else B;

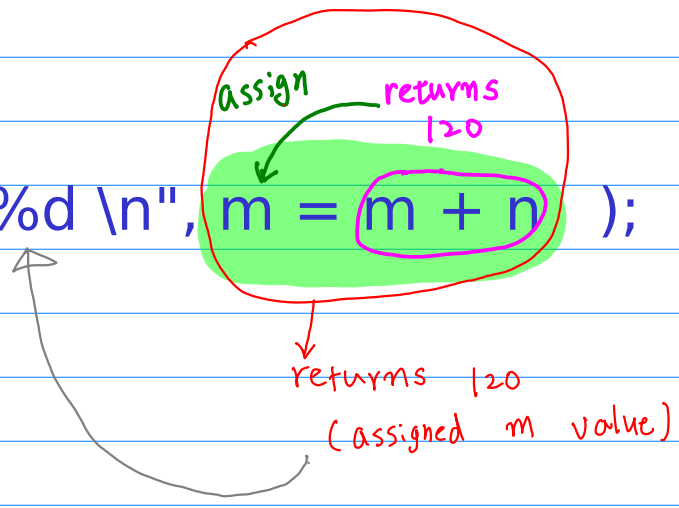


returns 0 : false
if (M=0) A;
else B;



```
m=100;  
n=20;
```

```
printf("m = m + n --> %d \n", m = m + n );
```



```
m=100;  
n=20;
```

```
printf("m += n --> %d \n", m += n);
```

