% + /

Q1 Given the following code snippet, what will be the value of result? (Solutions with proper demonstration of working will only be accepted) (5)

```
int a = 10;
int b = 3;
int c = 5;
int d = 6;
int result=0;
if ( (a+c)%c*2  < 1) {
   result = a / b;
} else {
   result = a * b;
}
```

result = 10/3 = 3

(10 + 5) % 5 x 2 < 1

(15) % 5 x 2 < 1

0 x 2 < 1

0 < 1 → T

so result = 10/3 = 3

Q2 (10)

Write the output/error of the following:

Program Segment	Output

int num = 84;
if(num % 12){ → This statement means if (num % 12) is True (true = 1, False = 0)
cout<<"Number is divisible by 12\n";
}
else
cout<<"Number is not divisible by 12\n"; This statement will run
(84 % 12 == 0 so,)	

int a = 5, b = 3, c = 2;
if (a > b && b > c); → Due to this ~~com~~ semi colon
cout << "Condition 1\n"<<a;
else if (a = b)
cout << "Condition 2/n"<<b;
else
cout << "Condition 3";
return 0;
These lines of code can not compile because of above error
	error

int x = 12, y = 10, z = 5;
cout << (--x > y) || x/--z + 4 <= 8 && z < ++y - x;
~~All of the conditions are T~~ and Final result is T
T T F F
	1 so 1 will be printed
	T = 1

int x = 5 , y = 10;
double z=-1;
if (x > y)
z = x * --y + x;
else
z+=1; → These statements will run
z = x++ * --y + y;
std::cout <<"The value of z:" << std::endl<<z;
z+=1, → can be error due to comma
	The value of z: 54

(--x > y) ⇒ 11 > 10 → (T)

x/--z + 4 ⇒ 11/4 + 4 <= 8

6 <= 8 → (T)

z < ++y - x → 4 < 11 - 11

4 < 0 → (F)

T || T && F solve first

T || F solve later

(T) → T = 1

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