

```
1  #include <stdio.h>
2
3  int main(void)
4  {
5      //variable declarations
6      int a;
7      int b;
8      int c;
9      int result;
10
11     //code
12     printf("\n\n");
13     printf("Enter First Integer : ");
14     scanf("%d", &a);
15
16     printf("\n\n");
17     printf("Enter Second Integer : ");
18     scanf("%d", &b);
19
20     printf("\n\n");
21     printf("Enter Third Integer : ");
22     scanf("%d", &c);
23
24     printf("\n\n");
25     printf("If Answer = 0, It Is 'FALSE'.\n");
26     printf("If Answer = 1, It Is 'TRUE'.\n\n");
27
28     result = (a <= b) && (b != c);
29     printf("LOGICAL AND (&&) : Answer is TRUE (1) If And Only If BOTH Conditions
Are True. The Answer is FALSE (0), If Any One Or Both Conditions Are False.
\n\n");
30     printf("A = %d Is Less Than Or Equal To B = %d AND B = %d Is NOT Equal To C =
%d
\t Answer = %d\n\n", a, b, b, c, result);
31
32     result = (b >= a) || (a == c);
33     printf("LOGICAL OR (||) : Answer is FALSE (0) If And Only If BOTH Conditions
Are False. The Answer is TRUE (1), If Any One Or Both Conditions Are True.\n
\n");
34     printf("Either B = %d Is Greater Than Or Equal To A = %d OR A = %d Is Equal To
C = %d
\t Answer = %d\n\n", b, a, a, c, result);
35
36     result = !a;
37     printf("A = %d And Using Logical NOT (!) Operator on A Gives Result = %d\n\n",
a, result);
38
39     result = !b;
40     printf("B = %d And Using Logical NOT (!) Operator on B Gives Result = %d\n\n",
b, result);
41
42     result = !c;
43     printf("C = %d And Using Logical NOT (!) Operator on C Gives Result = %d\n\n",
c, result);
```

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44
45     result = (!(a <= b) && !(b != c));
46     printf("Using Logical NOT (!) On (a <= b) And Also On (b != c) And then AND-  ↗
         ing Them Afterwards Gives Result = %d\n", result);
47
48     printf("\n\n");
49
50     result = !((b >= a) || (a == c));
51     printf("Using Logical NOT (!) On Entire Logical Expression (b >= a) || (a ==  ↗
         c) Gives Result = %d\n", result);
52
53     printf("\n\n");
54
55     return(0);
56 }
57
```