Consider a code snippet with functions M1,...,Mn that are defined in the code.

Let c1,...,cn be the Cyclomatic complexity of the each function. This could be calculated by the given formula:

Where, D represents decision points.

Now we can calculate the total complexity of the code using following formula

Where i = 1, 2, 3…..n

Where, TC represents total complexity of the code. Ci represents the complexity of the ith fun ction.

**Example:**

**Input Fomat:-** example.c

# include <stdio.h>

# include <conio.h>

void fun1(int, int, int);

void fun2(int, int, int);

int main()

{

int a, b, c;

a = 10;

b = 20;

c = 30;

fun1(a, b, c);

fun2(a, b, c);

return 0;

}

void fun1(int a, int b, int c)

{

if(a > b)

{

if(a > c)

{

printf("%d", a);

}

else

{

printf("%d", c);

}

}

else

{

if(b > c)

{

printf("%d", b);

}

else

{

printf("%d", c);

}

}

}

void fun2(int a, int b, int c)

{

if(a == 354)

{

if(b > c)

{

a = b;

}

else

{

a = c;

}

}

printf("%d", a);

}

**Output Format:**

Function main (C1): 0 + 1 = 1

Function fun1(C2): 3 + 1 = 4

Function fun2(C3): 2 + 1 = 3

TC = 1 + 4 + 3 = 8

Question:

Write a code which takes a c code snippet as input. The code should calculate complexity for each function and total complexity of the given input