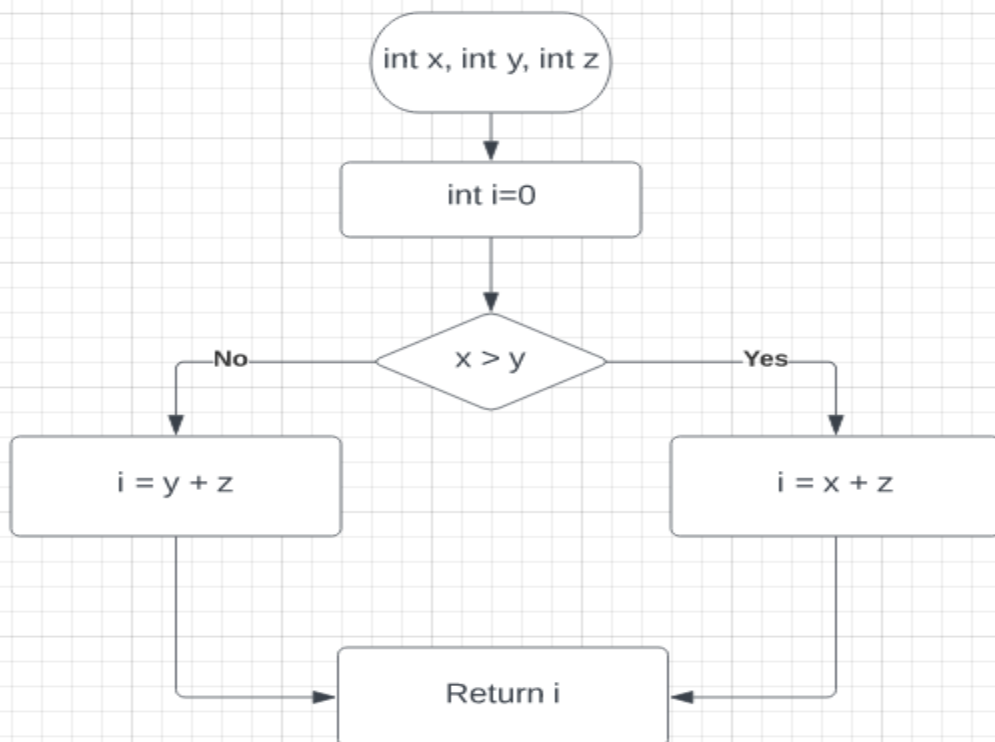


1

```
int Test_Function(int x, int y, int z)  
{  
  int i = 0;  
  if(x > y)  
  {  
    i = x + z;  
  }  
  else  
  {  
    i = y + z;  
  }  
  return i;  
}
```



Cyclomatic Code Complexity

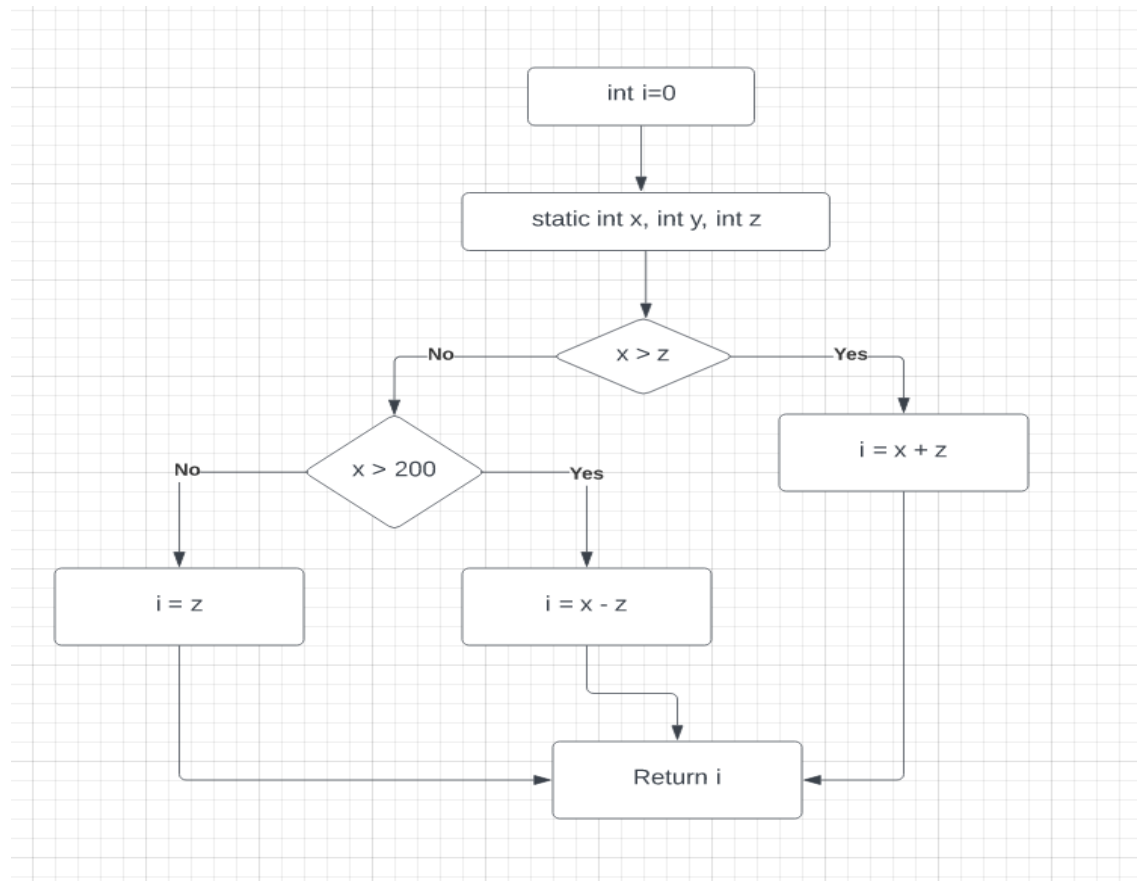
**CC = E - N + 2P**

CC = 6 - 6 + 2(1)

CC = 2

2

```
int Test_Function()  
{  
  int i = 0;  
  static int x, int y, int z;  
  
  if(x > z)  
  {  
    i = x + z;  
  }  
  else  
  {  
    if (x > 200)  
    {  
      i = x - z;  
    }  
    else  
    {  
      i = z;  
    }  
  }  
  return i;  
}
```



Cyclomatic Code Complexity

$$CC = E - N + 2P$$

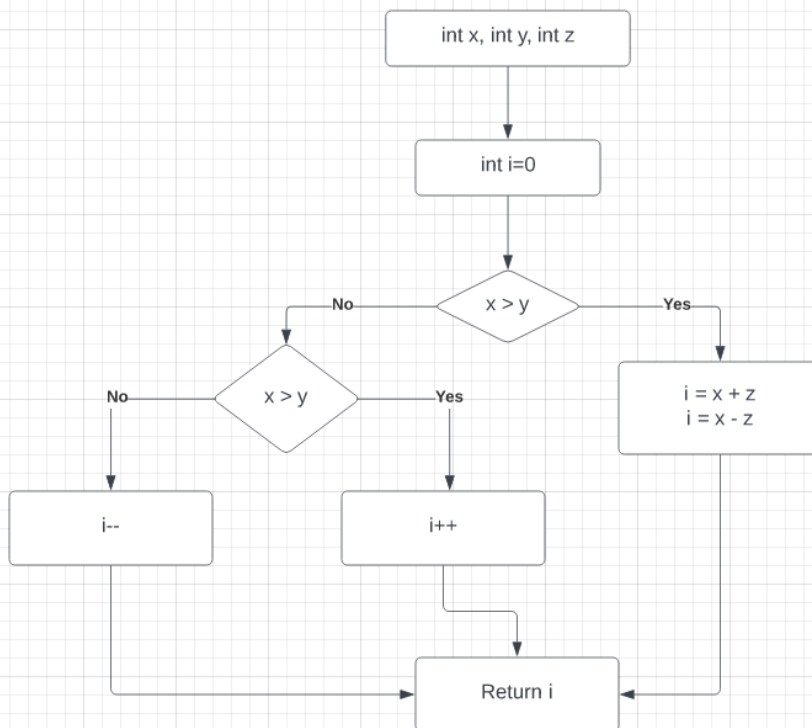
$$CC = 9 - 8 + 2(1)$$

$$CC = 1 + 2$$

$$CC = 3$$

3

```
int Test_Function(int x, int y, int z)
{
    int i = 0;
    if(x > y)
    {
        i = x + z;
        i = x - z;
    }
    else
    {
        if (x > y)
        {
            i++;
        }
        else
        {
            i--;
        }
    }
    return i;
}
```



Cyclomatic Code Complexity

$$CC = E - N + 2P$$

$$CC = 9 - 8 + 2(1)$$

$$CC = 1 + 2$$

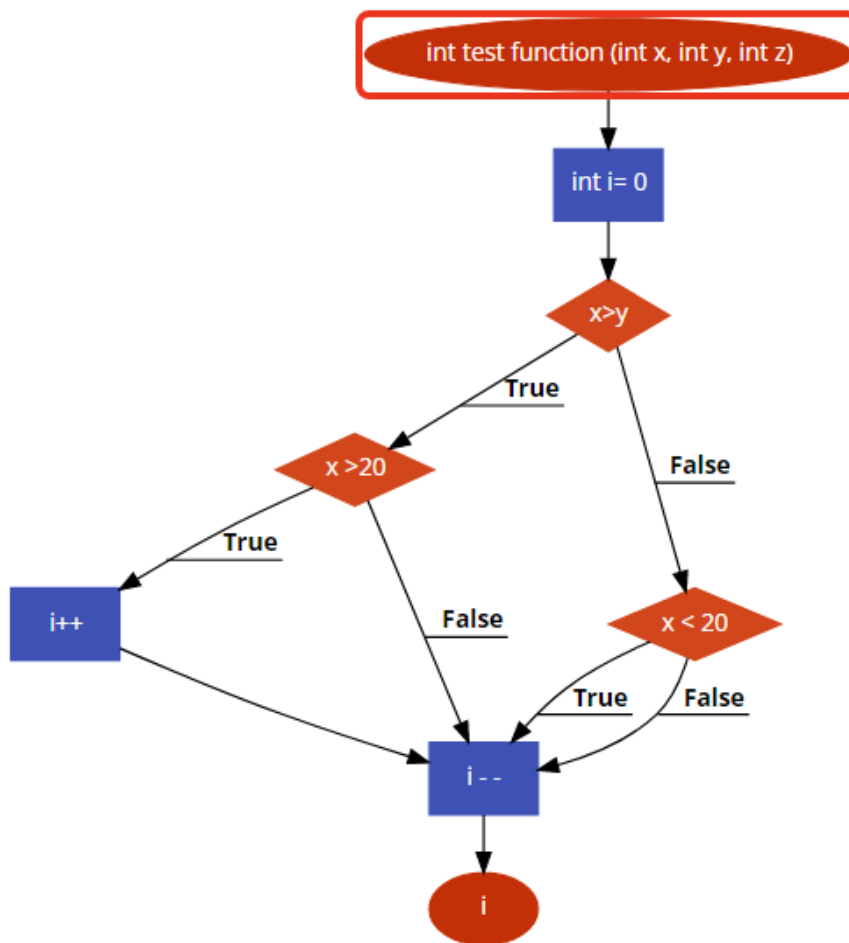
$$CC = 3$$

### Coding Mistakes:

There is an indentation error in the above code and 'i' is updated two times, there is no need to write two times.

4

```
int Test_Function(int x, int y, int z)
{
    int i = 0;
    if(x > y)
    {
        if (x > 20)
        {
            i++;
        }
    }
    else
    {
        if (x < 20)
        {
            i--;
        }
    }
    return i;
}
```



Cyclomatic Code Complexity

$$CC = E - N + 2P$$

$$CC = 10 - 8 + 2(1)$$

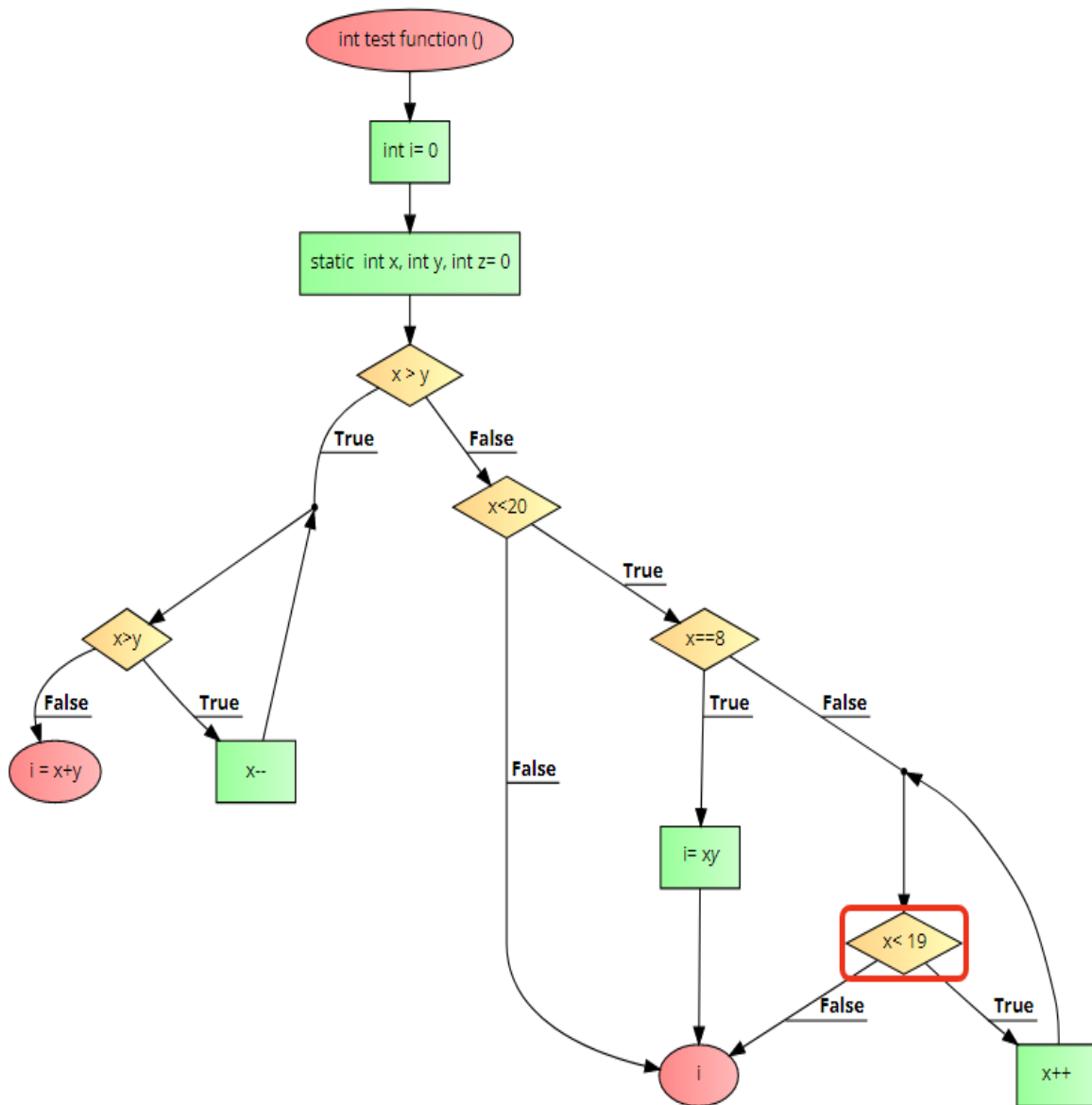
$$CC = 2 + 2$$

$$CC = 4$$

### Coding Mistakes:

In the above code “if statement” should have defined the else block but the else block is missing.

```
int Test_Function()  
{  
  int i = 0;  
  static int x, int y, int z = 0;  
  if(x > y)  
  {  
    while(x > y)  
    {  
      x--;  
    }  
    i = x + y;  
  }  
  else  
  {  
    if (x < 20)  
    {  
      if (x == 8)  
      {  
        i = x * y;  
      }  
      else  
      {  
        while(x < 19)  
        {  
          x++;  
        }  
      }  
    }  
  }  
  return i;  
}
```



Cyclomatic Code Complexity

$$CC = E - N + 2P$$

$$CC = 16 - 13 + 2(1)$$

$$CC = 3 + 2$$

$$CC = 5$$

### Coding Mistakes:

In the above code “if statement” should have defined the else block but the else block is missing.