

Tutorial 12

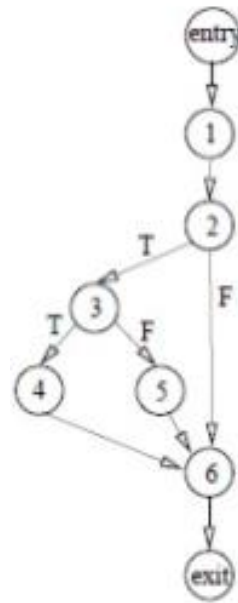
Question 1:

A. Draw the Flow Graph for the following code:

1)

```

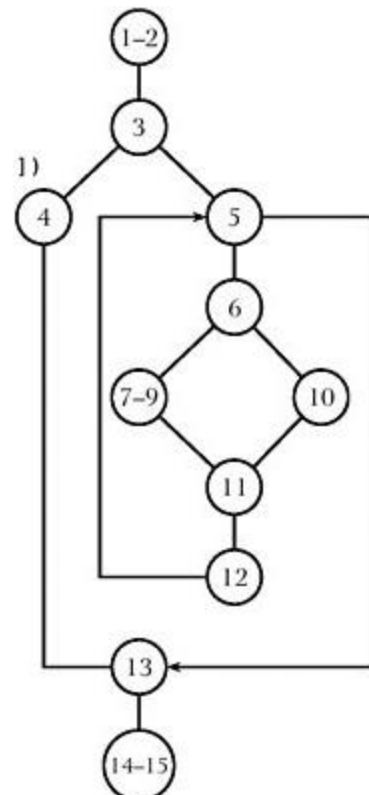
o Integer i, j, k
1. read i, j, k
2.  if (i < j)
3.    if (j < k)
4.      i = k;
    else
5.      k = i;
    end if
  end if
6. print i, j, k
end example
    
```



2)

```

1  int strequal (char x[],char y[
2  {   int I = 0, same = 0;
3      if(x == y)
4          same =1;
5      else while (x[i] == y[i])
6          {   if x[i] == '\0')
7              {   same = 1;
8                  y[i] = '\7';
9              }
10             else i++;
11             /*endif*/
12         } /*endwhile*/
13
14         /*endif*/
15
16         return(same);
17     } /*endstrequal*/
    
```



B. Find the Cyclomatic Complexity for each graph:

1)

$$V(G) = 7 - 6 + 2 = 3$$

Path 1 : 1 - 2 - 6

Pathe 2: 1 - 2 - 3 - 5 - 6

Pathe 3: 1 - 2 - 3 - 4 - 6

2)

$$V(G) = 11 - 9 + 2 = 4$$

Path 1 : 3 - 4 - 13

Pathe 2: 3 - 5 - 6 - 10 - 11 - 12 - 5 - 13

Pathe 3: 3 - 5 - 6 - 7 - 11 - 12 - 5 - 13

Pathe 3: 3 - 5 - 13