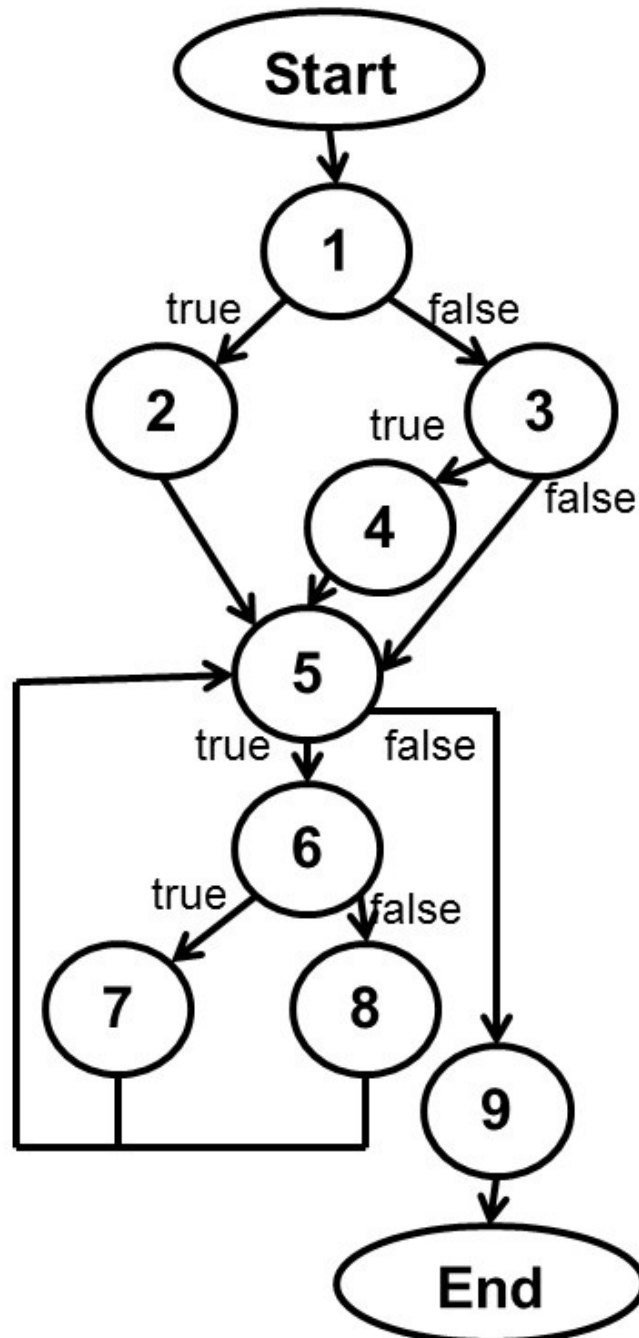


**SE 4367 (Software Testing)**  
**Homework #3, Cyclomatic Complexity**

- a) For the following control flow graph, calculate the cyclomatic complexity. Show your work.



- b) For the following structured program P2, calculate the cyclomatic complexity using the structured program decision count rule. Show your work.

Program P2

```
1)  integer A, B;
2)  input (A);
3)
4)  if (A > 7)
5)  {
6)      B = 1;
7)  }
8)  else
9)  {
10)     B = 2;
11)     if (A < 2)
12)         B = 3;
13) } // end else !A>7
14)
15) while (i=1; i<=A; i++)
16) {
17)     if (B<0)
18)     {
19)         B = B + 4;
20)     }
21)     else
22)     {
23)         B = B - 5;
24)     } // end else !B<0
25) } // end loop
26)
27) output (A,B);
28) end;
```