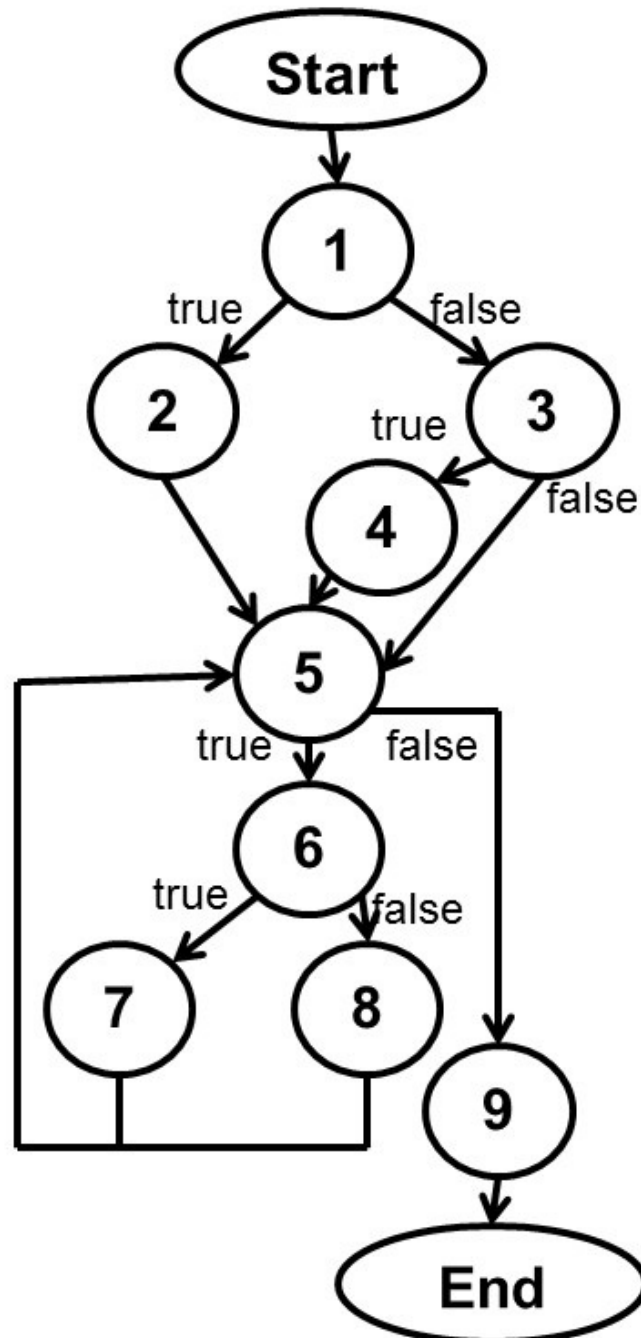


SE 4367 (Software Testing)
Homework #3, Cyclomatic Complexity

- a) For the given control flow graph below, 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)  if (A > 7)
4)      B = 1;
5)  else
6)      {
7)          B = 2;
8)          if (A < 2)
9)              B = 3;
10)     } // end else !A>7
11) while (i=1; i<=A; i++)
12)     {
13)         if (B<0)
14)             B = B + 4;
15)         else
16)             B = B - 5;
17)     }
18) output (A,B);
19) end;
```