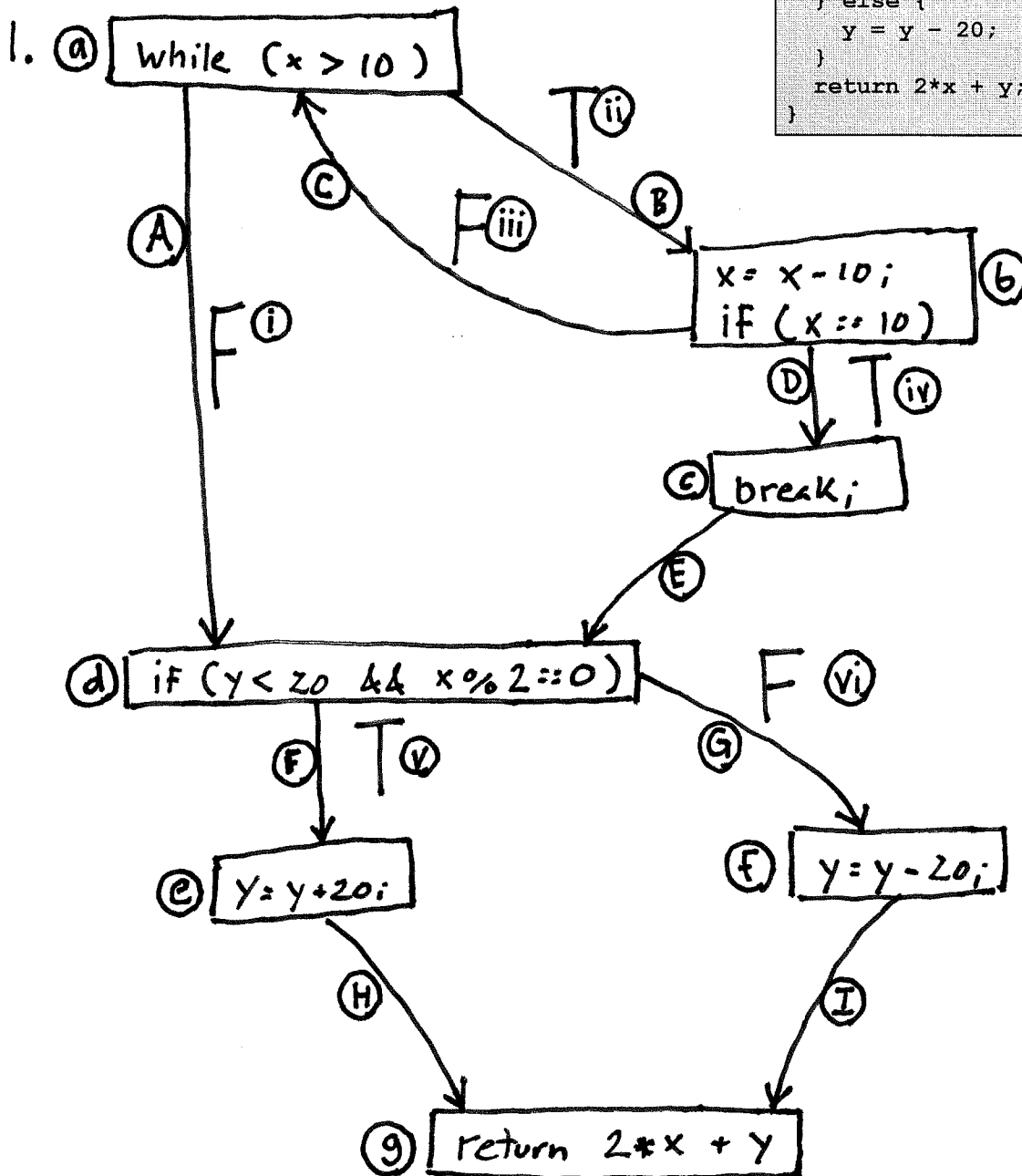


Whitebox Testing Quiz

Consider the myF () method.

1. Draw a control flow graph for myF ().
2. Define test suites for myF () that provide:
 - a. Statement coverage
 - b. Condition coverage
 - c. Path coverage (1-loop or less paths only)

```
int myF(int x, int y) {
    while (x > 10) {
        x = x - 10;
        if (x == 10) {
            break;
        }
    }
    if (y < 20 && x%2 == 0) {
        y = y + 20;
    } else {
        y = y - 20;
    }
    return 2*x + y;
}
```



2.a.

Input		Expected	Covers
x	y		
2	2	26	a, d, e, g
20	20	20	a, b, c, d, f, g

2.b.

Input		Expected	Covers
x	y		
30	2	42	ii, iii, iv, v
2	20	4	i, vi

2.c. Paths

P_1 : A, F, H
 P_2 : A, G, I
 P_3 : B, D, E, F, H
 P_4 : B, D, E, G, I
 P_5 : B, C, A, F, H
 P_6 : B, C, A, G, I

Input		Expected	Covers
x	y		
2	2	26	P_1
2	20	4	P_2
20	2	42	P_3
20	20	20	P_4
12	2	26	P_5
12	20	4	P_6