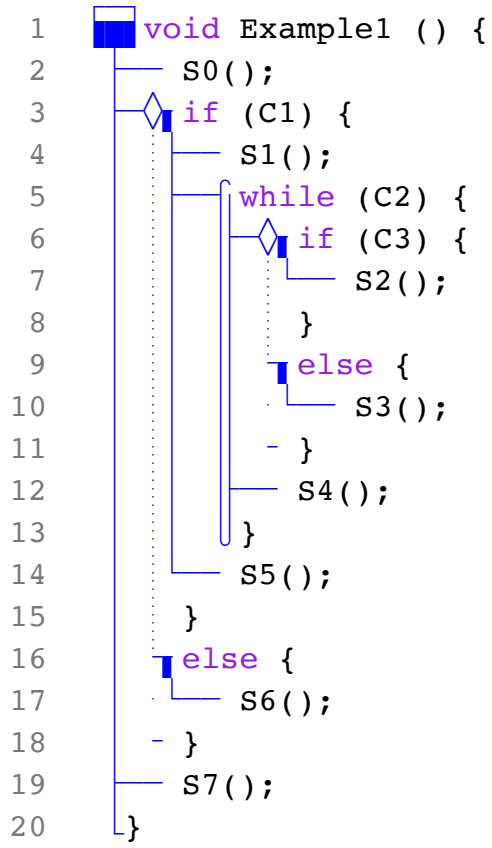
Basis Path Examples

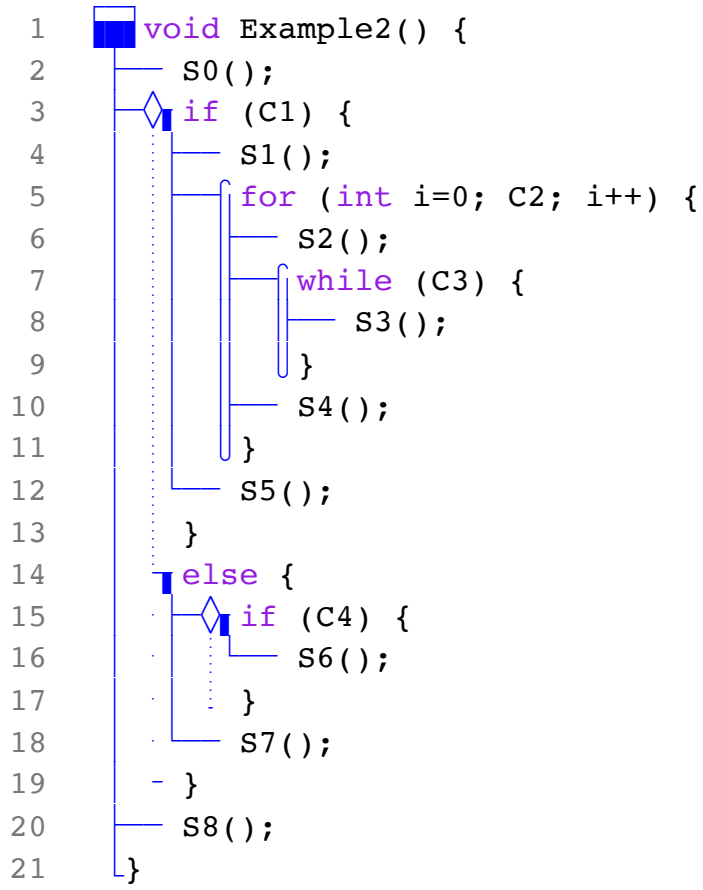


```
1   void Example1 () {
2     S0();
3     if (C1) {
4       S1();
5       while (C2) {
6         if (C3) {
7           S2();
8         }
9         else {
10          S3();
11        }
12        S4();
13      }
14      S5();
15    }
16    else {
17      S6();
18    }
19    S7();
20  }
```

V (G) = 4

Path #	Path	C1	C2	C3
1				
2				
3				
4				

Basis Path Examples



```
1  void Example2() {
2    S0();
3    if (C1) {
4      S1();
5      for (int i=0; C2; i++) {
6        S2();
7        while (C3) {
8          S3();
9        }
10       S4();
11     }
12     S5();
13   }
14   else {
15     if (C4) {
16       S6();
17     }
18     S7();
19   }
20   S8();
21 }
```

V (G) = 5

Path #	Path	C1	C2	C3	C4
1					
2					
3					
4					
5					

Basis Path Example with Multiple Conditions

```
1   void Example3() {
2     S1();
3     if (C1 && C2) {
4       S2();
5     }
6     else {
7       S3();
8     }
9     S4();
10  }
```

V (G) = 3

Path #	Path	C1	C2
1			
2			
3			

Basis Path Examples with Multiple Conditions

```
1   void Example4 () {
2     S0();
3     if (C1 || C2) {
4       S1();
5       while (C3) {
6         S2();
7         if (C4 && C5 && C6) {
8           S3();
9         }
10        else {
11          S4();
12        }
13        S5();
14      }
15      S6();
16    }
17    else {
18      for (int i=0; C7; i++) {
19        S7();
20      }
21      S8();
22    }
23    S9();
24  }
```

V (G) = 8

Path#	Path	C1	C2	C3	C4	C5	C6	C7
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								