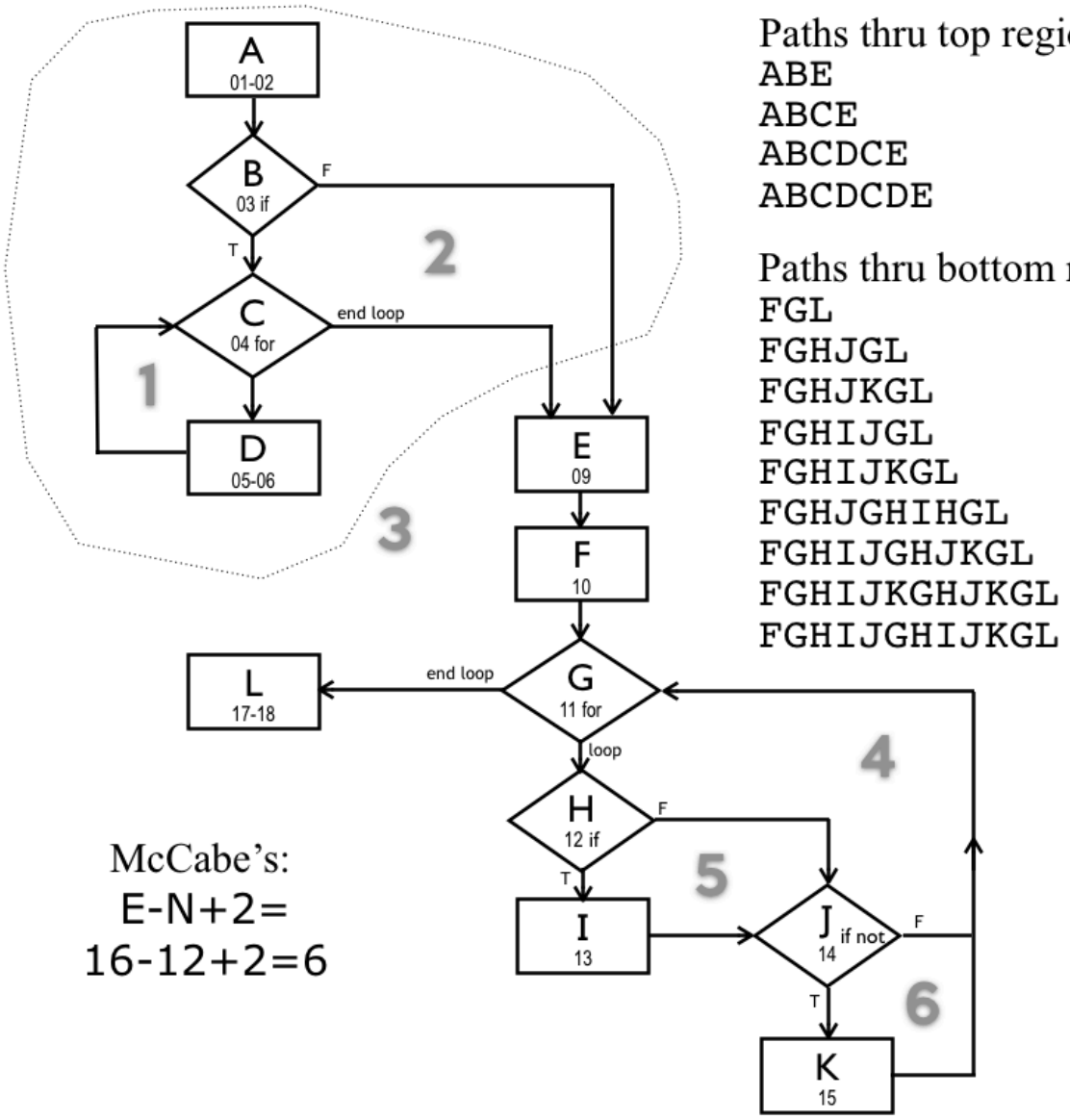
SAMPLE CODE

```
01  println ("Enter number of digits for your number");
02  get (n);
03  if n >= 1 and n <=80 {
04    for i = 1 to n loop {
05          t := rand (0..7);
06          a[n] := t;
07          }
08     }
09  else println ("Error: Number of digits must be between 1 and 80”);
10  checking_for_leading_zeros := true;
11  for i = 1 to n loop {
12    if a[n] /= 0 then
13       checking_for_leading_zeros := false;
14    if not checking_for_leading_zeros
15       print (a[n]);
16    }
17  println ();
18  end
```



Paths thru top region:

```
ABE
ABCE
ABCDCE
ABCDCDE
```

Paths thru bottom region:

```
FGL
FGHJGL
FGHJKGL
FGHIJGL
FGHIJKGL
FGHJGHIHGL
FGHIJGHJKGL
FGHIJKGHJKGL
FGHIJGHIJKGL
```

McCabe's:

E-N+2=

16-12+2=6

Note: the homework assignment and project ask you to identify paths that provide statement and branch coverage. The paths I have listed here are intended to work toward providing some measure of path coverage. (Due to loops, complete path coverage is unattainable.) To attain path coverage through the entire module, we would need to combine each of the paths through the top region with each of the paths through the bottom region. With just the paths listed here, that would be 4x9=36 paths.