CS-141 Scope Exercise

Place variable name at top (gray area). Indicate an "d" where the variable is declared. Mark an x in boxes to indicate scope.
Can you say which variables are formal parameters(p) and which are arguments (a) (actual parameters)?
Note, there may be more than one variables with a given name. Use a separate column for each. What is the program output?

1	`public class Sample`	**args**								
2	`{`									
3	`public static void main(String[] args)`	d,p								
4	`{`	x								
5	`int i = 10;`	x								
6	`int b = g(i);`	x								
7	`System.out.println(b + i);`	x								
8	`}`	x								
9										
10	`public static int f(int i)`									
11	`{`									
12	`int n = 0;`									
13	`while (n * n <= i) { n++; }`									
14	`return n - 1;`									
15	`}`									
16										
17	`public static int g(int a)`									
18	`{`									
19	`int b = 0;`									
20	`for (int n = 0; n < a; n++)`									
21	`{`									
22	`int i = f(n);`									
23	`b = b + i;`									
24	`}`									
25	`return b;`									
26	`}`									
27	`}`									