package setm; //line 1

//line 2

public class A { //line 3

//line 4

String a = "A"; //line 5

//line 6

public void printA() { //line 7

System.out.println(a); //line 8

} //line 9

} //line 10

* S is same as number of tokens.
* Cohesion is counted in Size(S). Thought no need of a separate column for Cohesion. Remember Size is not only Cohesion.
* “h” is total number of ancestors.
* “I” is the Indentation where min is 0 and max is 1 and have only two values either 0 or 1.
* Coupling(Cu) is total number of attributes or methods called through other classes.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Line No | Size (S) | Control Structures (C) | Coupling (Cu) | h | Complexity (N+I) (S+C+Cu+h) |
| 1 | 2 | 0 | 0 | 0 | (1+0) (2+0+0+0) = 2 |
| 2 | 0 | 0 | 0 | 0 | 0 |
| 3 | 3 | 0 | 0 | 0 | (1+0) (3+0+3+0) = 6 |
| 4 | 0 | 0 | 0 | 0 | 0 |
| 5 | 4 | 0 | 0 | 0 | (2+0) (4+0+0+0) = 8 |
| 6 | 0 | 0 | 0 | 0 | 0 |
| 7 | 3 | 0 | 0 | 0 | (2+0) (3+0+3+0) = 12 |
| 8 | 2 | 0 | 0 | 0 | (3+0) (2+0+0+0) = 6 |
| 9-10 | 0 | 0 | 0 | 0 | 0 |

**Next Page ->**

package setm; //line 1

//line 2

public class B extends A{ //line 3

//line 4

String b = "B"; //line 5

public void printB() { //line 6

System.out.println("This is " + b +". Your Parent is " + a); //line 7

} //line 8

} //line 9

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Line No | Size (S) | Control Structures (C) | Coupling (Cu) | h | Complexity (N+I) (S+C+Cu+h) |
| 1 | 2 | 0 | 0 | 0 | (1+0) (2+0+0+0) = 2 |
| 2 | 0 | 0 | 0 | 0 | 0 |
| 3 | 5 | 0 | 0 | 1 | (1+0) (5+0+0+1) = 5 |
| 4 | 0 | 0 | 0 | 1 | 0 |
| 5 | 4 | 0 | 4 | 1 | (2+0) (4+0+5) = 18 |
| 6 | 3 | 0 | 3 | 1 | (2+0) (3+0+4) = 14 |
| 7 | 2 | 0 | 2 | 1 | (3+0) (2+0+3) = 15 |
| 8-9 | 0 | 0 | 0 | 1 | (1+0) (0+0+0+1) = 1 |

**Next Page ->**

package setm; //Line 1

//Line 2

public class C extends A { //Line 3

//Line 4

String c = "C"; //Line 5

//Line 6

public void printC() { //Line 7

System.out.println("This is " + c + ". Your Parent is " + a); //Line 8

} //Line 9

} //Line 10

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Line No | Size (S) | Control Structures (C) | Coupling (Cu=S+h) | Complexity (N+I) (S+C+Cu) |
| 1 | 2 | 0 | 0 | (1+0) (2+0+0) = 2 |
| 2 | 0 | 0 | 0 | 0 |
| 3 | 5 | 0 | 5+1 = 6 | (1+0) (5+0+6) = 5 |
| 4 | 0 | 0 | 0+1 = 1 | 0 |
| 5 | 4 | 0 | 4+1 = 5 | (2+0) (4+0+5) = 18 |
| 6 | 0 | 0 | 0+1 = 1 | 0 |
| 7 | 3 | 0 | 3+1 = 4 | (2+0) (3+0+4) = 14 |
| 8 |  | 0 | 0 | 0 |