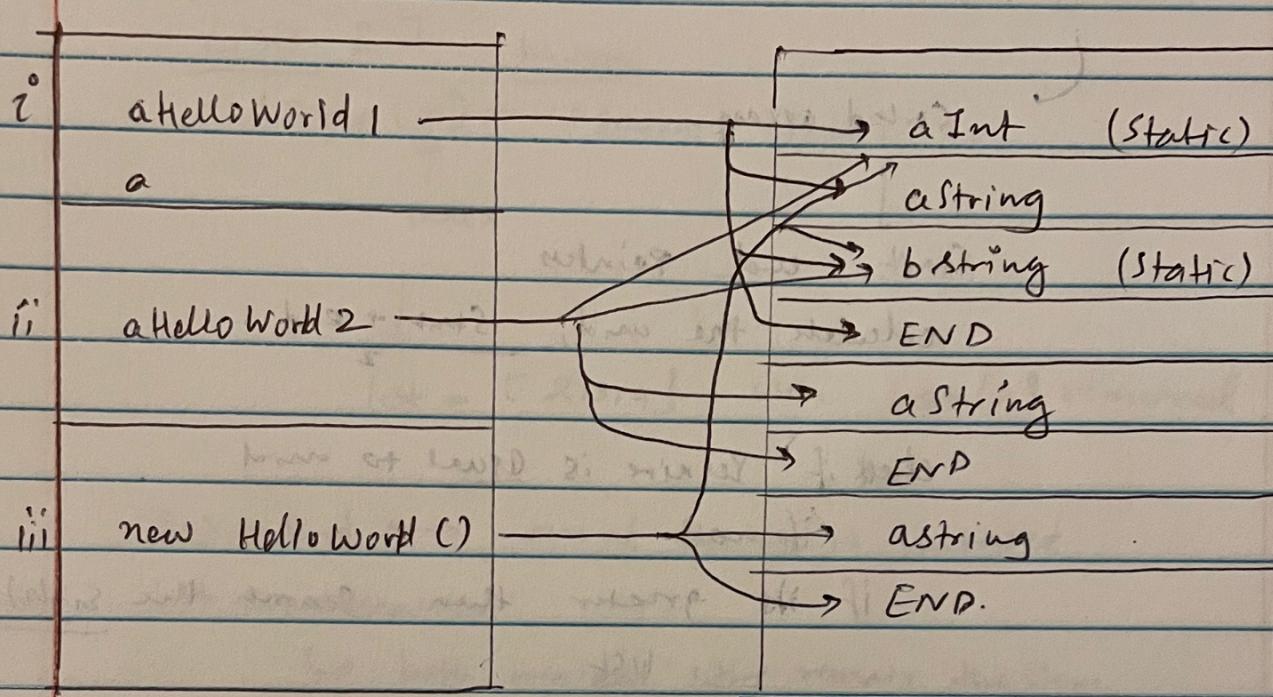


Chetan Chandrakar

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5.1



There will be 3 objects created, therefore
3 memory addresses will be assigned & only
2 of them will have an instance variables
objects:-

line no.

37 `new HelloWorld();`

38 `new HelloWorld(4);`

39 `new HelloWorld();`

↳ won't have any instance variable

Instance variables

37 : aHelloWorld1

38 : aHelloWorld2

1) Total 2 class variables, it will exist till program termination.

Static int aInt, Static String bString

2) Total 2 instance variables and available till program terminates or if it will be assigned NULL, then the garbage collector will destroy that object

3) Method called.

Line no

40 SetBool() → is called by aHelloWorld1

24 SetState() → aHelloWorld2

41 SetString() → aHelloWorld1

42 SetString() → aHelloWorld2

43 toString() → by aHelloWorld1

44 toString() → aHelloWorld2

45 getCounter() → aHelloWorld2 normally

4) Constructor sequence

Line no -

37

a Helloworld 1 's constructor

38

Helloworld (4) by a Helloworld 2

39

Helloworld () by a Helloworld 1

5) Yes, it is possible to change all the public methods to private, except for the `ToString()` method, because it is a method of object class and as it is a public class, we cannot override that method with a weaker access modifier.
i.e private, protected, default.