HEAP and STACK DIAGRAM for CustomerDemo.java

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In java, Whenever we execute a program then JVM will get some memory from the Operating System.
This memory is divided into 2 sections :

1) HEAP MEMORY [All the objects and its contents are stored in the HEAP memory]
2) STACK MEMORY [All the methods, Local and Parameter variables are stored in STACK Memory]

HEAP MEMORY

1000x : CustomerObject, name :2000x , id : ~~2~~ 5
2000x : StringObject, Ravi
3000x : CustomerObject, name :4000x, id : ~~7~~ 9
4000x : StringObject, Rahul

Output :
9
5

STACK MEMORY

main_stack
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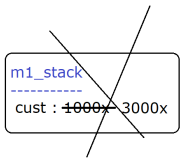
val : 100
c1 : 1000x




String objects are not eligible for GC.

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HEAP and STACK diagram for Sample.java

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HEAP MEMORY

1000x : SampleObject, i1 : 2000x
2000x : IntegerObject, 900
3000x : SampleObject, i1 : 4000x
4000x : IntegerObject, ~~900~~ 9
5000x : SampleObject, i1 : 6000x
6000x : IntegerObject, ~~900~~ 20

Output :
20
9

STACK MEMORY

main_stack
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s1 : ~~1000x~~ null
s2 : 3000x
s3 : null

modify_stack
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s : ~~3000x~~ ~~5000x~~ null

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HEAP and STACK Diagram for Employee.java

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HEAP MEMORY

1000x : EmployeeObject, id : ~~100~~ ~~200~~ 500
2000x : EmployeeObject, id : ~~100~~ 400
3000x : EmployeeObject, id : ~~100~~ ~~900~~ 500
4000x : EmployeeObject, id : ~~100~~ 900

Output :
400
500
500
500

STACK MEMORY

main_stack
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val : 200
e1 : 1000x
e2 : 3000x