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A1:

There is only one output because there is only one method.

output:

hey from message1

A2:

There are only one output because there are only two method and method 2 depends on method 1 return

output:

hey from message1

hey from message2

A3:

There are 3 outputs due to notation possibilities

output 1 :

hey from message1

hey from message3

hey from message2

output 2:

hey from message3

hey from message1

hey from message2

output3:

hey from message3

hey from message2

hey from message1

A4:

There are 1 output in order to main controller priority; it's first return the first method to print main controller, then 3 then 2 due to qulifer notation.

output1:

hey from message1

hey from main controller

hey from message3

hey from message2

A5:

There are 1 output in order to main controller priority; it's first return the message3 method, then message2, then return it to print main controller, and lastly print message1.

output3:

hey from message3

hey from message2

hey from main controll

hey from message1