

```
#
#       Correct the errors (without adding any new lines) in the program below and then
#       trace the output.
#
#       The format of the trace must be as follows (upto 20 steps is sufficient) :
#       (For an example of how the trace should be have a look at the example given
#       below)
```

Step no.	Prog. Line	Memory contents
1	1	a = 1
2	2	
.		
.		
.		
20		

```
for a in [1,2]:           #Prog. Line No.1
    print b               #Prog. Line No.2
    for b in range(1,3):  #Prog. Line No.3
        for c in range(1,3): #Prog. Line No.4
            print a,":",b,":",c #Prog. Line No.5
        print c             #Prog. Line No.6
    print b                #Prog. Line No.7
```

#Example Program

```
#for car in ['mercedes','bmw','Rolls Royce']: #Program Line No. 1
#    print "Car = ",car                       #Program Line No. 2
```

The example trace for the two lines given above is as given below

The format of the trace must be as follows (upto 20 steps is sufficient) :
Leave a space blank if nothing has happened in any step under any heading.

Step no.	Prog line	Memory updates/Condition checks
1	1	car = 'mercedes'
2	2	
3	1	car = 'bmw'
4	2	
5	1	car = 'Rolls Royce'
6	2	
7	1	

Trace of the output of the computer :

Step no.	Prog. Line	Output
1	1	
2	2	The car is a mercedes
3	1	
4	2	The car is a mercedes The car is a bmw
5	1	
6	2	The car is a mercedes The car is a bmw
7	1	The car is a Rolls Royce