```
In [1]: | # ABC Motors
```

def __init__(self, cars_output, var_cost, tot_fmc, sell_pp_car, sga, taxrate):

Part 1

In [32]: | class AbcMotorsA():

```
self.cars_output = cars_output
                    self.var_cost = var_cost
                    self.tot_fmc = tot_fmc
                    self.sell_pp_car = sell_pp_car
                    self.sga = sga
                    self.taxrate = taxrate
                def avg_cost(self):
                    return (self.var_cost * self.cars_output + self.tot_fmc) / self.cars_output
                def revenue(self, cars_act_sold):
                    return self.sell_pp_car * cars_act_sold
                def cogs(self, cars_act_sold):
                    return self.avg_cost() * cars_act_sold
                def __str__(self):
                    return f"""
                        The number of cars output this year is {self.cars_output}
   In [33]: A = AbcMotorsA(cars_output=100000, var_cost=7500,
                           tot_fmc=750000000, sell_pp_car=25000,
                            sga=780000000, taxrate=0.3
                           )
   In [34]: | print(A)
                        The number of cars output this year is 100000
   In [35]: | A.avg_cost()
   Out[35]: 15000.0
   In [36]: | A.revenue(90000)
   Out[36]: 2250000000
   In [37]: A.cogs(90000)
   Out[37]: 1350000000.0
   In [38]: A.sga
   Out[38]: 780000000
   In [40]: | A.revenue(90000) - (A.cogs(90000) + A.sga)
   Out[40]: 120000000.0
   In [41]: NOPAT = 120000000.0 * (1-A.taxrate)
   In [42]: NOPAT
   Out[42]: 84000000.0
Part 2
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In [43]: B = AbcMotorsA(cars_output=125000, var_cost=7500,
                        tot_fmc=750000000, sell_pp_car=25000,
                        sga=780000000, taxrate=0.3
In [44]: B.avg_cost()
Out[44]: 13500.0
In [45]: B.revenue(90000)
Out[45]: 2250000000
```

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In [46]: B.cogs(90000)
Out[46]: 1215000000.0
In [47]: B.revenue(90000) - (B.cogs(90000) + B.sga)
Out[47]: 255000000.0
In [48]: 255000000.0 * 0.7
Out[48]: 178500000.0
```