BRAC UNIVERSITY

Department of Computer Science and Engineering Course: Programming Language II (CSE111)

Examination: Lab Midterm (Traci	SET A	
Name:	ID:	Sec:

1	class A:
2	definit(self):
3	self.x = 3
4	self.y = 2
5	self.sum = 1
6	<pre>def methodC(self, p, q):</pre>
7	self.x = p + 2
8	self.y = q - 3
9	<pre>print(self.x, " ", self.y," ", self.sum)</pre>
10	return self.x + self.y
11	
12	class B:
13	<pre>definit(self):</pre>
14	self.sum = 3
15	self.x = 2
16	self.y = 1
17	
18	<pre>def methodA(self):</pre>
19	x, y = 4, 6
20	k = A()
21	s = B()
22	k.sum = self.x
23	s.sum = self.y + k.y
24	s.y = k.methodC(x, y) + self.y

25	<pre>self.y = self.y + self.methodB(k, y)</pre>
26	self.sum = x + y + k.sum
27	<pre>print(s.x," ", k.y," ", self.sum)</pre>
28	
29	
30	def methodB(self, p , $q = 3$):
31	x, y = 7, 8
32	p.x = self.x + x
33	p.y = self.y + y
34	self.sum = p.sum
35	print(p.x, " ", y," ", self.sum)
36	if q == 3:
37	return p.x
38	else:
39	return p.x + q

m = B()	What is the output of	x	У	sum
· · · · · · · · · · · · · · · · · · ·	the following code sequence?			
m.methodA()	m = B()			
	m.methodA()			

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Design the **Meal** class with necessary methods to generate the output shown below.

```
course = Meal("We need help with our
Meal plan")
                                 Course No: a23
c1 = Course("a23", "Appetizer", "Thai
                                 Name: Appetizer
Soup", "Prawns")
                                 Dish: Thai Soup
course.addCourse(c1)
                                 Ingredient(s): Prawns
print("....")
                                 print(course.showCourseByNo("a23"))
                                  print("....")
                                 Course No: m102
c2 = Course("m102", "Main Course",
                                 Name: Main Course
"Beef Steak" )
                                 Dish: Beef Steak
course.addCourse(c2)
                                 Ingredient(s): Imported Beef
print("....")
                                 print (course.showCourseByNo("m102"))
                                 print("....")
                                 Course No: a44
c3 = Course("a44", "Appetizer",
                                 Name: Appetizer
"Mushroom Soup")
                                 Dish: Mushroom Soup
course.addCourse(c3)
                                 Ingredient(s): Mushroom
print("....")
                                  Here is the whole Meal Plan:
print (course.showCourseByNo("a44"))
print("....")
                                 Number of Soups: 2
                                 {'a32': ['Thai Soup', 'Prawns'],
course.allAppetizers()
course.allMainCourses()
                                 'a44': ['Mushroom Soup',
                                 'Mushroom'}
                                 Number of Main Courses: 1
                                 {'m102': ['Beef Steak', 'Imported
                                 Beef']}
```