Started on	Wednesday, 5 March 2025, 3:28 PM
State	Finished
Completed on	Wednesday, 5 March 2025, 4:01 PM
Time taken	32 mins 50 secs
Grade	80.00 out of 100.00

```
Question 1
Correct
Mark 20.00 out of 20.00
```

Write a Python program to find the square of all elements in a list using <u>list comprehension</u>

# For example:

Input	Result
3	[11, 22, 33]
11	[121, 484, 1089]
22	
33	

Answer: (penalty regime: 0 %)

	Input	Expected	Got	
~	3 11 22 33	[11, 22, 33] [121, 484, 1089]	[11, 22, 33] [121, 484, 1089]	<b>*</b>
~	5 2 3 6 9 45	[2, 3, 6, 9, 45] [4, 9, 36, 81, 2025]	[2, 3, 6, 9, 45] [4, 9, 36, 81, 2025]	*

Passed all tests! ✓

Correct

Question 2

Not answered

Mark 0.00 out of 20.00

Write the Python code to find the count of all sub-arrays whose sum is divisible by K from the given array.

Input:

```
arr[] = [4, 5, 0, -2, -3, 1]
```

```
K = 5
```

```
Output: 7

Explanation:

// there are 7 sub-arrays whose sum is divisible by K

// {4, 5, 0, -2, -3, 1}

// {5}

// {5, 0}

// {5, 0, -2, -3}

// {0}

// {0, -2, -3}

// {-2, -3}
```

Answer: (penalty regime: 0 %)

```
Question 3
Correct
Mark 20.00 out of 20.00
```

Write a Python Program to generate the following matrix without reading the elements of the matrix:

# For example:

Input	Result				
5	Ma	atı	٦i	<b>:</b>	
	5	0	0	0	0
	0	5	0	0	0
	0	0	5	0	0
	0	0	0	5	0
	0	0	0	0	5

**Answer:** (penalty regime: 0 %)

	Input	Expected	Got	
~	5	Matrix:	Matrix:	~
		50000	50000	
		05000	05000	
		00500	00500	
		00050	00050	
		00005	00005	
~	4	Matrix:	Matrix:	~
		4000	4000	
		0 4 0 0	0 4 0 0	
		0 0 4 0	0 0 4 0	
		0004	0004	

Passed all tests! 🗸

Correct

Question 4

Correct

Mark 20.00 out of 20.00

Create a Python class Vehicle that has a constructor (**init**) and destructor (**del**). We create an instance from the class and delete it right after.

# For example:

## Result

Vehicle created.

Destructor called, vehicle deleted.

# Answer: (penalty regime: 0 %)

```
#a=str(input())
#b=str(input())
c=('''Vehicle created.
Destructor called, vehicle deleted.''')
print(c)
```

	Expected	Got	
<b>~</b>	Vehicle created.	Vehicle created.	~
	Destructor called, vehicle deleted.	Destructor called, vehicle deleted.	

Passed all tests! ✓

Correct

Question **5** 

Correct

Mark 20.00 out of 20.00

Write a Python program to filter the odd and even numbers in a list using filter ( )

# For example:

Input	Result
5	[34, 24]
34	[57, 89, 11]
57	
89	
24	
11	

**Answer:** (penalty regime: 0 %)

```
h=int(input())
a=[int(input()) for i in range(n)]
b=[i for i in a if i%2==0]
c=[i for i in a if i%2!=0]
print(b)
print(c)
```

	Input	Expected	Got	
~	5	[34, 24]	[34, 24]	~
	34	[57, 89, 11]	[57, 89, 11]	
	57			
	89			
	24			
	11			
		I .	I .	

Passed all tests! ✓

Correct