

1)

3 points

Consider the below function.

```
1 def func(nums:list):  
2     return sum(num for num in nums if len(str(num))<2)
```

Select all the data processing pattern(s) found in the given function.

- ☒ Aggregation
- ☒ Filtering
- ☐ Mapping
- ☐ None of the above

2)

3 points

Consider the below function.

```
1 def func(nums:list):  
2     return sum(num*2 for num in nums)
```

Select all the data processing pattern(s) found in the given function.

- ☒ Aggregation
- ☐ Filtering
- ☒ Mapping
- ☐ None of the above

3)

3 points

Consider the below function.

```
1 def func(nums:list):
```

```
2 return "".join((str(num) for num in nums))
```

Select all the data processing pattern(s) found in the given function.

- ☒ Aggregation
- ☐ Filtering
- ☒ Mapping
- ☐ None of the above

4)

3 points

Consider the below function.

```
1 def func(sentence:str):  
2     return next((word for word in sentence.split() if 'a' in word), None)
```

Select all the data processing pattern(s) found in the given function.

- ☐ Aggregation
- ☒ Filtering
- ☐ Mapping
- ☐ None of the above

5)

3 points

Consider the below function.

```
1 def func(sentence:str):  
2     return [word*2 for word in words if 'a' in word]
```

Select all the data processing pattern(s) found in the given function.

- ☐ Aggregation
- ☒ Filtering
- ☒ Mapping
- ☐ None of the above

6)

3 points

Consider the below function.

```
1 def func(sentence:str):
2     return [
3         chr(ord(char)+1) if char in 'aeiou' else chr(ord(char)-1)
4         for char in sentence
5     ]
```

Select all the data processing pattern(s) found in the given function.

- ☐ Aggregation
- ☐ Filtering
- ☒ Mapping
- ☐ None of the above

7)

3 points

Consider the below function.

```
1 def func(sentence:str):
2     return ''.join([
3         chr(ord(char)+1) if char in 'aeiou' else chr(ord(char)-1)
4         for char in sentence
5     ])
```

Select all the data processing pattern(s) found in the given function.

- ☒ Aggregation
- ☐ Filtering
- ☒ Mapping
- ☐ None of the above

8)

3 points

Consider the below function.

```
1 def func(sentence:str):
2     return ''.join([
3         chr(ord(char)+1)
4         for char in sentence
5         if char in 'aeiou'
6     ])
```

Select all the data processing pattern(s) found in the given function.

- ☐ Aggregation
- ☒ Filtering
- ☒ Mapping
- ☐ None of the above

9)

3 points

Consider the below function.

```
1 def func(nums:list):
2     return [num*2 for num in nums]
```

Select all the data processing pattern(s) found in the given function.

- ☐ Aggregation

- ☐ Filtering
- ☒ Mapping
- ☐ None of the above

10)

3 points

Consider the below function.

```
1 def func(n:int):  
2     return [  
3         num*2 if len(str(num))<2 else num*3  
4         for num in range(n)  
5     ]
```

Select all the data processing pattern(s) found in the given function.

- ☐ Aggregation
- ☐ Filtering
- ☒ Mapping
- ☐ None of the above

11)

3 points

Consider the below function.

```
1 def func(n:int):  
2     return [num for num in range(n) if len(str(num))<2]
```

Select all the data processing pattern(s) found in the given function.

- ☐ Aggregation
- ☒ Filtering

- ☐ Mapping
- ☐ None of the above

12)

3 points

Consider the below function.

```
1 def func(n:int):  
2     return next((num for num in range(n) if len(str(num))<2), None)
```

Select all the data processing pattern(s) found in the given function.

- ☐ Aggregation
- ☒ Filtering
- ☐ Mapping
- ☐ None of the above

13)

3 points

Consider the below function.

```
1 def func(nums:list):  
2     return min(num)
```

Select all the data processing pattern(s) found in the given function.

- ☒ Aggregation
- ☐ Filtering
- ☐ Mapping
- ☐ None of the above

14)

3 points

Consider the below function.

```
1 def func(nums:list):  
2     return min(len(str(num)) for num in nums)
```

Select all the data processing pattern(s) found in the given function.

- ☒ Aggregation
- ☐ Filtering
- ☒ Mapping
- ☐ None of the above

15)

3 points

Consider the below function.

```
1 def func(nums:list):  
2     return min(nums, key= lambda x: len(str(abs(x))))
```

Select all the data processing pattern(s) found in the given function.

- ☒ Aggregation
- ☐ Filtering
- ☒ Mapping
- ☐ None of the above