

## Question

Which one is NOT correct about a set.

- ☐ set is a collection of items with no specific order
- ☐

set is a collection of distinct items

☐ if you create a set from the keys of a dictionary, the number of items in the set and the number of pairs in the dictionary would be the same.



We can use a set to store the name of a students in a college.

## Question

If the order of the items in a collection does not matter, for which of the following items it is more efficient to use a set instead of a list to represent (store) the information?

- ☒ social insurance numbers of all Canadians
- ☐

The name of all Canadians



The address of the websites



The street names in a city

## Question

Which statement(s) are correct?



Wherever we use a set to store some data, we can use a list too.



The values in dictionary could be repeated.



It is not possible to use a dictionary to represent the values of a list.



Sets are more efficient than list because you can insert an item at a specific location faster than inserting in a list.

## Question

Which statements are NOT correct about functions in Python.



All functions in Python should return a value otherwise it looks like an algorithm with no output.



The function definition is a compound statement in Python.



It is possible to have a function in Python with no input parameter and no return statement.



In Python it is not possible to have function with multiple return statements.

## Question

imaging you are going to write a function to solve the following problem:

You need to start from the "Start" cell and find a path to the "End" cell and the function should let us know where to go at each step to get the End cell from the Start cell.

What cannot be the return type of the function?

<b>Start</b> 1	7	13	19	25	31	37	43	49	55
2	8	14	20	26	32	38	44	50	56
3	9	15	21	27	33	39	45	51	57
4	10	16	22	28	34	40	46	52	58
5	11	17	23	29	35	41	47	53	59
6	12	18	24	30	36	42	48	54	<b>End</b> 60



a set



a list



a tuple



a dictionary

## Question

If you are going to store the name of all countries and their capital cities what data type would you use?



list of tuples



A dictionary



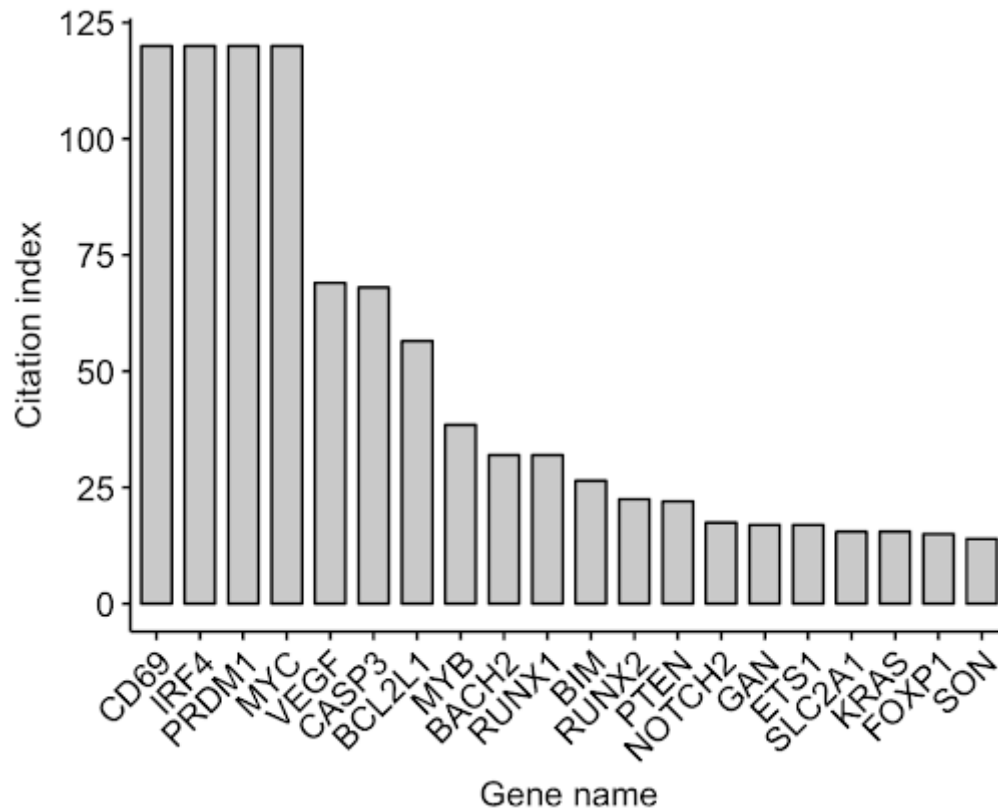
String



a set of strings

## Question

What data type would be best to represent data represented in this figure? (write only one word)



Answer

## Question

By default when you add an item to the list, the item is added at the beginning of the list.

- ☐ True  
☒ False

## Question

In Python the type of the items in a list should be the same

- ☐ True  
☒ False

## Question

Any list could be converted into a set using `set()` function with the same size as the list, just in sets, the order of items are not necessarily same as the list.

- ☐ True  
☒ False

## Question

When you add a new item to the dictionary, the item is by default added to the beginning of the dictionary.

- ☐ True  
☒ False

## Question

In dictionary you cannot have a key without a value.

- ☒ True  
☐ False

Submit