

## 7.6.18 Code Practice: Question 4



At this link:

### Instructions

Write a program that asks the user to input a word or phrase and then outputs the following information about that phrase:

1. **All numbers** if the input is all numbers.
2. **Does not contain numbers** if the input does not contain any numbers.
3. **Contains a {digit}** for each number in the phrase.

### Sample Run

```
Enter your word or phrase: 555
All numbers

Enter your word or phrase: We are #1!
Contains a 1

Enter your word or phrase: a1b2c3d
Contains a 1
Contains a 2
Contains a 3

Enter your word or phrase: computer science
Does not contain numbers
```

### Hints

- You may wish to use a loop that goes from the digits 0 to 9, and remember that loops can be used for processing string values when appropriate.
- For this question, you may want to use a **flag variable** to keep track of whether any numbers have been found. Flag variables are true/false status variables that are used to track whether something has occurred.
  - For example, if you wanted to check if any of ten numbers was 99, then you could use a flag variable:

```
flag = 0
for i in range(10):
    num = int(input("Enter a number"))
    if num == 99:
        flag = 1

if flag == 1:
    print("You included the magic number!")
```

- - This sets the flag variable to 1 if any of the ten equalled 99, but if none did, it would still be 0 at the end of the loop. Flag variables are especially useful for keeping track of events that may occur in a loop.
  - In this code practice, they can be used to check at the end to see if any numbers were found at all.

**Submit a screenshot that your code successfully runs.**

Points 5

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