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Date: Oct 8, 2021 (due: Oct 9, 2021)

Assignment Title: Individual Programming 1 Part 2

Summary of how the program should run:

Write a program that does the following, in order: 1) prompt the user for a general category of things; 2) prompt the user for five things to put in the list; 3) ask the user to enter a number between 1 and 5; 4) based on the numeric input (n) print out the n-th item in the sorted list; 5) print the sorted list; 6) prompt the user for a character; 7) print a list of booleans reflecting whether the user-entered character is in each element of the list.

List of changes made to the original assignment:

1) check to see if at #3 the user enters a numeric character

2) this is really un-original but it would be good to have the user pick the size of the list

Examples of the program (please also upload any attachments necessary):

# Example of the original:

Let's create a list of 5 things. Think of a general category.

What category of things should we store? (One word or name with no spaces): dye-plants

dye-plants 1: woad

dye-plants 2: indigo

dye-plants 3: madder

dye-plants 4: oxalis

dye-plants 5: logwood

Pick a number between 1 and 5: 2

You picked woad!

The sorted list is: ['indigo', 'logwood', 'madder', 'oxalis', 'woad']

Pick a single character: &&

[False, False, False, False, False]

Errors that will crash the program or cause illogical problems:

If at #3 the user enters anything other than a numeric character the program crashes

If the user enters an alpha numeric when asked for the size of the list, the program crashes (should add a test for this.)

Additional examples or other comments/notes:

Let's create a list of 5 things. Think of a general category.

What category of things should we store? (One word or name with no spaces): Animals

Animals 1: cat

Animals 2: dog

Animals 3: bird

Animals 4: snake

Animals 5: hamster

Pick a number between 1 and 5: 3

You picked dog!

The sorted list is: ['bird', 'cat', 'dog', 'hamster', 'snake']

Pick a single character: %

[False, False, False, False, False]