Assignment: Search 101

Type: Classwork

For this problem, you must allow the user to enter exactly 5 numbers as initial input.
The program must then ask for an additional number. All of the numbers that will be entered are integers.

The output of the program will indicate whether the last number is contained in the first 5 numbers.
Your output should exactly match that provided in the example below.

You should provide exception handling, input validation, and appropriate error messages.

After completing one set of numbers, and printing the appropriate output, the program should prompt for the beginning of another set of numbers.

Example 1
Enter a number: 1
Enter a number: 2
Enter a number: 5
Enter a number: 10
Enter a number: 15
Enter the number to be searched: 10

The number 10 appears in the first 5 numbers.

Enter a number:

Example 2
Enter a number: 10
Enter a number: 20
Enter a number: 30
Enter a number: 40
Enter a number: 50
Enter the number to be searched: 60

The number 60 does not appear in the first 5 numbers.

Enter a number:

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                                Critical TestCases
1     Enter a number: 10
2     Enter a number: 10
3     Enter a number: 10
4     Enter a number: 10
5     Enter a number: 10
6     Enter the number to be searched: 10
7     The number 10 appears in the first 5 numbers.
8
9     Enter a number: 10
10    Enter a number: 11
11    Enter a number: 12
12    Enter a number: 13
13    Enter a number: 14
14    Enter the number to be searched: 14
15    The number 14 appears in the first 5 numbers.
16
17    Enter a number: 20
18    Enter a number: 21
19    Enter a number: 22
20    Enter a number: 23
21    Enter a number: 24
22    Enter the number to be searched: 20
23    The number 20 appears in the first 5 numbers.
24
25    Enter a number: 10
26    Enter a number: 11
27    Enter a number: 12
28    Enter a number: 13
29    Enter a number: 15
30    Enter the number to be searched: 12
31    The number 12 appears in the first 5 numbers.
32
33    Enter a number: 20
34    Enter a number: 19
35    Enter a number: 18
36    Enter a number: 17
37    Enter a number: 16
38    Enter the number to be searched: 17
39    The number 17 appears in the first 5 numbers.
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