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COMSC 140 Python

Program Documentation for

As7\_5\_Subset\_of\_the\_list

1/ Link  
<https://github.com/DVC-COMSC/assignment-7-5-enduringwriter/blob/main/main.py>

2/ Program Purpose  
This program checks if one list is a subset of another, if the subset is in the same sequence without any broken sequence.

Assumptions: Both lists contain integers and are not empty.

3/ Input/Output Description  
Input: List of integers.  
Output: Boolean value.

4/ Explanation of All Variables

num1 = subset list

num2 = list to be checked against

len\_num1 = length of num1

end\_index = end of index length/slice

num2\_slice\_to\_check = slice of num2 to check if num1 is a (subset) match of num2

I = counter for num2

is\_subset = Boolean variable of true or false

5/ Flow Chart  
Start > Input 2 lists of integers > Declare variable len\_num1 > Loop through each element in num2 to find a match to num1 > Calculate the index length for a slice of num2 > Compare slice to num1, if match then is\_subset is True, otherwise is False > Output true/false Boolean value > End

6/ Lesson Learned  
Learned patience!!! This program was not easy. Used loop, index and slice, condition, and Boolean to determine if a subset is in the same sequence of list.

7/ Errors

* Missing break statement, which caused Boolean is\_subset to be overwritten as False
* Missing = in logical comparison = =
* Used for loop with num1
* Used sorted when I should not have used it