

Course Number	CSci 120
Descriptive Title	Object-oriented Programming
Programming Language	Java

Problem Set Number	4
Problem Number	3
Activity Title	Use Nested Loops

Objective

In this exercise you will use nested loops to implement a string search operation.

Directions

Write a method that searches for a specific string within another string; the method must return true if the former exists in the latter string. For example: `isSubString("cat", "The cat in the hat.")` is true, but `isSubString("bat", "The cat in the hat.")` is false. Also, verify that the boundary conditions are also met.

Also, verify that the boundary conditions are also met:

- `isSubString("The", "The cat in the hat.")` is true
- `isSubString("hat.", "The cat in the hat.")` is true

Hint: Use the `charAt(int index)` method in the `String` class to retrieve a specific character from a string; the index starts with zero. For example. `"cat".charAt(0)` is 'c', `"cat".charAt(1)` is 'a', and `"cat".charAt(2)` is 't'. The `length` method returns the number of characters in the string; e.g. `"cat".length()` is 3.