1: Given an array of integers `nums` and an integer `target`, return *indices of the two numbers such that they add up to* `target`.

You may assume that each input would have **exactly** **one solution**, and you may not use the *same* element twice.

You can return the answer in any order.

```
nums = [3,7,11,15,22,31]

target = 29
```

JAVA Questions

2: In terms of inheritance, what is the effect of keeping a constructor private?

3: Write a method to replace all spaces in a string with '%20'. You may assume that the string has sufficient space at the end to hold the additional characters, and that you are given the 'true' length of the string. Using Java, use a character array so that you can perform this operation in place.

Example:

Original: "Micro Control Systems   ", 21

Output: Micro%20Control%20Systems