# Test Problems

Q1. Write a function to swap two variables without using the third variable?

Q2. Suppose you have an array of integers.

* Length of array is n+1
* Integers are in the range of 1 to n.

It follows that our array has at least one integer which appears at least twice. But it may have several duplicates, and each duplicate may appear more than twice. Write a function which finds an integer that appears more than once in our array.

Q3. Suppose a user can input any string. From a given **String**find maximum repetitive character? You also have to cover boundary cases i.e. NULL?

Q4. Write a function which takes two integer vectors and an integer (**sum**) as input. From given vectors find the pair (s) whose sum is equal to **sum**.