Indian Institute of Technology Delhi
COL 100 - Introduction to Computers and Programming
II Semester 2014-2015
Assignment 5: Arrays

Question 1 is graded.
Question 2 is not graded.

Question 1. Write a C++ program to print out the longest pattern of consecutive primes in an array.

The program takes 2 user inputs – N and array.
N   :   Number of elements in the array (N < 100)
array[]:   Input Array (non negative integers) entered
              by the user

The output of the program is:
len   :   Length of the longest pattern of consecutive
              primes in the array
start   :   Start of the longest pattern of consecutive
              primes in the array

0 or 1 are treated as non-primes.

In case of invalid input data, the program should output "INVALID INPUT".

In case there are multiple sequences that match the condition, print the first one in the array.

Example 1:
N = 10
array = 1 2 6 4 5 3 7 2 11 13

The prime numbers are shown in green:
1 2 6 4 5 3 7 2 11 13
The trailing pattern of consecutive primes is longer, and array[**4**] = 5.

So, the output is:
5 3 7 2 11 13
Start = 4
Length = 6

Question 2 [Non Graded**].** Write a menu based C++ program to implement the following options :
1. Enter an input array of size 5
2. Insert an element at a user-specified position
3. Remove an element at a user-specified position
4. Print the differences between consecutive elements of the array
5. Display the array

Hint: Menu-based programs are usually implemented using the switch/case **statement.**