CS 107: Computer Programming – Sections: 1, 2, 3 – College of Engineering

1433/1434: First Semester; Monday 11/02/1433; Duration: 30 minutes

Quiz 2 (2 exercises, 2 pages)

Exercise 1 (2 points)

What is the output of the following code?

```
#include <iostream>
using namespace std;

void printArray(int x[], int n) {
      for (int i = 0; i < n; i++) {
            cout << "x[" << i << "] = " << x[i] << endl;
      }
}

int non(int x[], int n) {
      int c = 0;
      for (int i = 0; i < n; i++) {
            if (x[i] % 2 == 1) {
                  c++;
            }
      }
      return c;
}

int main() {
      int x[8];
      int n = 8;
      int p;
      for (int i = 0; i < n; i++) {
            x[i] = i;
      }
      printArray(x, n);
      p = non(x, n);
      cout << "Number of odd numbers in the array = " << p << endl;
      return 0;
}
```

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Exercise 2 (3 points)

Write a C++ function that returns the position of the first even number in an array of integers of size **n**.

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Example 1:
x = {88, 13, 56, 4, 76, 99}
The function should return 0 which is the position of 88
Example 2:
x = {31, 1, 79, 161, 12, 21, 90}
The function should return 4 which is the position of 12
Example 3:
x = {7, 11, 5, 177}
The function should return -1
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