North South University

Department of Electrical and Computer Engineering

CSE 115L: Programming Language I Lab

Week 05 – Assignments

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1. Ten numbers are entered from the keyboard into an array. The number to be searched is entered through the keyboard by the user. Write a program to find if the number to be searched is present in the array and if it is present, display the number of times it appears in the array.
2. Fifteen numbers are entered from the keyboard into an array. Write a program to find out how many of them are positive, how many are negative, how many are even and how many odd.
3. Write a program to copy the contents of one array into another in the reverse order.
4. Find the smallest and largest number in an array.
5. Write a C program that reads a month number and then prints the name and the last date of that month. It also computes the total number of days from the beginning of the year to that last date and prints it. You must use the following array to store the number of days in each month:
   int days [] = {31, 28, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31};
   [Hint: You may use switch-case to obtain the name of the month]
   Sample Input/Output (bold ones are user inputs):
   Enter month number: **4**
   Last day of April is 4/30. It is the 120 th day of the year.
6. Write a C program to find the **Duck Numbers** from a given series of 10 numbers. (A Duck number is a number which has zeroes present in it, but there should be no zero present in the beginning of the number.)
   I. Take inputs for 10 integer numbers in an array.
   II. Write a user-defined function **checkDuck(int)** for checking those 10 numbers whether they're Duck Number or not and then print the output **YES** or **NO**
7. What would be the output of the following programs?

a)
```
main()
{
   int num[26], temp ;
   num[0] = 100 ;
   num[25] = 200 ;
   temp = num[25] ;
   num[25] = num[0] ;
   num[0] = temp ;
   printf ( "\n%d %d", num[0],
num[25] ) ;
}
```

b)
```
main( ){

   int array[26], i ;
   for ( i = 0 ; i <= 25 ; i++ )
   {
      array[i] = 'A' + i ;
      printf ( "\n%d %c", array[i],
      array[i] ) ;
   }
}
```

c)
```
main( ){
int sub[50], i ;
for ( i = 0 ; i <= 48 ; i++ )
  {
    sub[i] = i ;
    printf ( "\n%d", sub[i] ) ;
  }

}
```