

ESC101 : Fundamental of Computing

Lab 9 for 31st October 2008

Note : Since last Friday was a holiday, so lab9 could not be conducted on last Friday (sections 3 and 4). Therefore, lab 9 will be conducted this Friday (tomorrow 31st October)). Lab 10 for section 3 and 4 will be held from 2 to 5PM on Saturday 1st November.

1. (marks=4)

Create an array A of 200 integers randomly generated in the range 40 to 49. Your program should print the number of times a number in the range $[40,49]$ appears in the array in the format described with the help of following example. If 40 appears 5 times. 41 appears 1 times, 42 appears 7 times, and so on, then the output should look like :

```
40 : *****
41 : *
42 : *****
.
.
```

2. (marks = 6)

Create two arrays A, B of 20 integers, and third array C of 40 integers. Fill A with randomly generated integers from interval 0 to 19. Fill B with randomly generated integers from interval 0 to 19. Fill C with randomly generated integers from interval 10 to 30. Print all the arrays - all elements of an array should be printed on a single line with consecutive elements separated by commas. After this, your program should print all triplets (i, j, k) such that $A[i] + A[j] = A[k]$. Each triplet should be printed on a separate line.