

## CS 256 Quiz 4, 26 October 2017

**Problem 0.1** Write a code that prints out all the subset of size  $m = 3$  from set  $\{1, 2, 3, \dots, n-1, n\}$  for a given number  $n$ .

For example the subset of size 3 from set  $\{1, 2, 3, 4, 5\}$  are :

$\{1, 2, 3\}, \{1, 2, 4\}, \{1, 2, 5\}, \{1, 3, 4\}, \{1, 3, 5\}, \{1, 4, 5\}, \{2, 3, 4\}, \{2, 3, 5\}, \{2, 4, 5\}, \{3, 4, 5\}$ .

**Problem 0.2** Write a code that reads an input string  $S$  and remove all the upper level letters from it and print it in the reverse order. Example : if input is “Ab97DefZ” then your output shoube be : “fe79b”

Between 3,4 choose one to answer !

**Problem 0.3** Write a program that reads an integer  $n$  and prints out its binrrary represen-taion. For example if  $n=18$  then your answer should be 10010.

**Problem 0.4** Read  $n$  points in the plane (2D plane) and find the closet pair of points (the input is  $n$  lines of  $x, y$  coordinates).