

CS 256, Quiz 3, Thursday October 12, 2017

Problem 0.1 Write a code that that print out all the subset of size $m = 2$ from set $\{1, 2, 3, \dots, n - 1, n\}$ for a given number n . Your program should read n from the input.

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

Problem 0.2 Write a program that reads a string S from input and prints out if S is palindrome.

We say string S is palindrome if reading it from left to right would be the same as reading it from right to left, e.g. "abdba" is palindrome and "abbaa" is not.

Problem 0.3 Write a function that takes two sorted array A, B of size m, n respectively and merge these two arrays into a sorted array C .

Example if $A=[1, 4, 5, 7, 8]$ and $B=[2,4,6,8,9,10]$ then $C=[1,2,4,4,5,6,7,8,8,9,10]$.