

1. Write a program to print all possible combinations of the digit 2, 5 and 7 using for loop only
2. By a research study it is found that the intelligence of person can be calculated with the following formula,  $i = 2 + (y + 0.5x)$ . Write a C program to generate a table of values of  $i$ ,  $y$  and  $x$ , where  $y$  varies from 1 to 6, and for each value of  $y$ ,  $x$  varies from 5.5 to 12.5 in steps of 0.5
3. Write a menu driven c program with the following options
  - a. 1. odd or even                      2. Prime or not                      3. Factorial of a number      4. Exit.
4. Assume a given series  $1!/2! + 2!/3! + 3!/4! + \dots n!/(n+1)!$  ---- Write a C program to calculate its sum
5. Write a C program to swap two given numbers with and without using the third variable