

CS580U

Exercise # 3

Deadline Sep 22, 2025, 7:59 AM (See GitHub Submission Instructions Below)

- (1) Write a program in C to add two numbers using pointers.
- (2) Write a program in C to multiply two numbers using call by reference.
- (3) Write a program in C to store n elements in an array and print the elements using a pointer.
- (4) Write a program in C to print all permutations of a given string ("HMAli") using pointers.

In number theory, a perfect number is a positive integer that is equal to the sum of its positive proper divisors, that is, divisors excluding the number itself. For instance, 6 has proper divisors 1, 2 and 3, and $1 + 2 + 3 = 6$, so 6 is a perfect number. The next perfect number is 28, since $1 + 2 + 4 + 7 + 14 = 28$.

This is the GitHub link to submit Ex 3: <https://classroom.github.com/a/SNiEbOtC>

Step 1: Click on the above link if you already have a GitHub account, if NOT create your own GitHub account, then click on the above link and join the classroom.

Step 2: After opening the link above accept the test Assignment.

Step 3: Click on the newly appeared GitHub link and see the attached PDF.

Step 4: Upload your C program on GitHub using the Add file tab.