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## Functions and Pointers

1. Write a function to find GCD of 3 numbers
2. Write a function to find smallest and largest number in array
3. Write a recursive function to find nth element in Fibonacci sequence.
4. Write a program to find value of y for given x using following formula  
 $y = \sin x^2 + \cos x^2$
5. Write a function to find value of  ${}^n P_r$  for given n and r values using following formula  
 ${}^n P_r = \frac{n!}{(n-r)!}$  (Note n! means factorial of n)
6. Write a program to reverse a string using pointer without using string functions.
7. Compare contents of two int arrays using pointers
8. Fill values of 3x3 matrix using DMA with single int pointer and print them.
9. Use array of char pointers to store group of strings and print them
10. Write a function to calculate and return + - \* and / of two numbers using single function  
Hint : funAll(int p,int q,int \*a,int \*s,int \*m,int \*d)