

- 1) Write a program to read n integers and compute the sum and average.
- 2) Write a program to read n integers and count the even numbers
- 3) Write a program to read an integer x and print its factors. For example if the user entered 20 the program should print 1,2,4,5,10,20
- 4) Write a program to read some integers until the user entered 9999 and count the number of entered numbers
- 5) Write a program to read an integer n and compute the factorial. Note that the factorial of $n=n*(n-1)*(n-2).....1$
- 6) Write a program to read an integer x and determine whether x is prime or not
- 7) Write a program to read two integers (x and y) and print all numbers between those numbers
- 8) Write a program to print the following


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- 9) Write a program to print the following


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- 10) Write a program to print the following


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- 11) Write a program to read an integer x and sum its digits. For example if the user entered 135 the program should print 9.
- 12) Write a program to print the multiplication table
- 13) Write a program to read n integers and compute the maximum
- 14) Write a program to read n integers . For each integer print its factors
- 15) Write a program to read an integer n and count the number of primes numbers less than or equal n
- 16) For a float x, write a program to compute the following

$$x + \frac{x^2}{2} + \frac{x^3}{3} + \frac{x^4}{4} \dots \dots \frac{x^n}{n}$$
- 17) For a float x, write a program to compute the n terms of the following series

$$x + \frac{x^3}{3} + \frac{x^5}{5} + \frac{x^7}{7} \dots \dots$$

18) Write a program to compute the following

$$\frac{1}{30} + \frac{2}{29} + \frac{3}{28} + \frac{4}{27} + \cdots \frac{30}{1}$$

19) Write a program to compute the following

$$\frac{1}{2} + \frac{2}{3} + \frac{3}{4} + \frac{4}{5} + \cdots \frac{99}{100}$$