Practice Problem Set 1.1

1. Write statements (or comments) to accomplish each of the following:

   a) Use a single-line comment to state that this program will calculate the product of three integers.
   b) Prompt the user to enter three integers.
   c) Define the variables x, y and z to be of type int.
   d) Read three integers from the keyboard and store them in the variables `x, y` and `z`.
   e) Define the variable result, compute the product of the integers `x, y, z` and use that product to initialize the variable `result`.

2. Write a program that asks the user to enter two numbers, obtains them from the user and prints their sum, product, difference, quotient and remainder.

   Examples

Input
12 3
Output
Sum = 12
Subtraction = 9
Multiplication = 36
Division = 4
Remainder = 0

3. Write a program that asks the user to enter the initial velocity and acceleration of an object, and the time that has elapsed, places them in the variables u, a, and t, and prints the final velocity, v, and distance traversed, s, using the following equations.
   $$v = u + at, s = ut + \frac{1}{2}at^2$$

Input
10 2 5
Output
v = 20
s = 75

4. Write a program that reads an employee's number, his/her worked hours in a month and the amount he received per hour. Print the employee's number and salary that he/she will receive at end of the month.

Input
1 231 15
Output
Employee 1 receives $3465

5. Write a program that asks the user to enter the total time elapsed, in seconds, since an event and converts the time to hours, minutes and seconds. The time should be displayed as hours: minutes: seconds.

   Examples

Input
1356
Output
0: 22: 36

Input
24528

Output
`6: 48: 48`

6. Write a program that asks the user to enter a 3-digit number and prints the digits of the number separated by tabs.

Examples

Input
`135`
Output
`1      3      5`