

Write a recursive method that finds the sum of the digits of an integer, based upon the following guidelines:

- If  $x$  is 234, the function should return  $2 + 3 + 4$ , that is, 9.
- If  $x$  is 12, the function should return  $1 + 2$ , which is 3.
- If  $x$  is negative, ignore the minus sign. For example, -12 and 12 both return 3.