1. Find the sign of product of three numbers **without** multiplication operator. Display the specified sign.

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| **Input** | **Output** |
| -14, 5, 0 | “unsigned” |
| -8, 9, -6 | “+” |
| 4, 19, -2 | “-” |

1. Insert a digit and a number. Check whether the digits contains in the number or not.

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| **Input** | **Output** |
| 5, 2463 | ‘No’ |
| 4, 6 | ‘No’ |
| 8, 45689 | ‘Yes’ |

1. Enter a number. Reverse its first and last digits. Print the new number.

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| --- | --- |
| **Input** | **Output** |
| 2 | 2 |
| 13 | 31 |
| 895796 | 695798 |

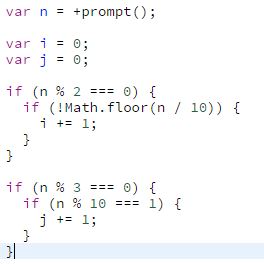
1. Given three numbers. Sort them by the ascending order.

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| **Input** | **Output** |
| 45 , 26, 78 | 26, 45, 78 |
| -23, -456, 0 | -456, -23, 0 |
|  |  |

1. Input three numbers *a*, *b*, *c* respectively, where a is a non zero number and write a program to solve quadratic equations: . *(Hint: use Math.pow or Math.sqrt)*.

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| **Input** | **Output** |
| 1, 2, 1 | “Solution is -1” |
| 0, 4, -5 | “Enter valid constans” |
| 3, -8, 12 | “Solution does not exists” |
| 5, -13, 6 | “Solutions are 0.6 and 2” |

1. Given the following code rewrite it using only two *if* operators. (*Hint:* use logical operators).



1. Write a program which will compute the area of a rectangular or a triangle after prompting the user to type the name of the figure name. Also check that entered numbers are positive.   
   *For the triangle entered numbers are height and and base.*

|  |  |
| --- | --- |
| **Input** | **Output** |
| “triangle”, 6, 7 | “Square of the triangle is 21” |
| “rectangle”, 8, 5 | “Square of the rectangle is 40” |
| “triangle”, 0, 5 | “Please enter only positives” |

1. (\*\*\*) Enter a number. Find the difference between its biggest and smallest digits.

|  |  |
| --- | --- |
| **Input** | **Output** |
| 5 | 0 |
| 152 | 4 |
| 4593653 | 6 |