

Assignment Solution

Problem Solving - Functions



Assignment

1.) Given 2 numbers as input. You need to find if they have opposite signs or not.

Input -> +123, -12

Output -> true

Solution -> <https://jsfiddle.net/0qmv3rz2/>

```
function checkSigns(x, y)
{
    return ((x ^ y) < 0);
}

// Driver Code

let x = 123, y = -12;

console.log(checkSigns(x, y));
```

2.) Given 3 numbers. You need to find the smallest of three numbers without using comparison operators

Input -> 12,44,2

Output -> 2

Solution -> <https://jsfiddle.net/wvb28sgd/>

```
let CHAR_BIT = 8;

function min(x,y)
{
    return y + ((x - y) & ((x - y) >> (32 * CHAR_BIT - 1)))
}

function smallest(x,y,z)
{
    return Math.min(x, Math.min(y, z));
}

let x = 12, y = 44, z = 2;

console.log("Smallest of 3 numbers is " +
    smallest(x, y, z));
```