**Silver Roi Ramos**

**Introduction to Programming**

**Algorithm IV**

*function* a(x,y){

return 5;

}

console.log(a(5,5))

Output: 5

*function* a(x,y){

z = []

z.push(x);

z.push(y);

z.push(5);

console.log(z);

return z;

}

b = a(2,2)

console.log(b);

console.log(a(6,8));

Output: [2,2,5], [2,2,5], [6,8,5], [6,8,5]

*function* a(x){

z = [];

z.push(x);

z.pop();

z.push(x);

z.push(x);

return z;

}

y = a(2);

y.push(5);

console.log(y);

Output: [2,2,5]

*function* a(x){

if(x[0] < x[1]) {

return true;

}

else {

return false;

}

}

b = a([2,3,4,5])

console.log(b);

Output: true

*function* a(x){

for(var i=0; i<x.length; i++){

if(x[i] > 0){

x[i] = “Coding”;

}

    }

    return x;

}

console.log(a([1,2,3,4]))

Output: [Coding, Coding, Coding, Coding]

*function* a(x){

for(var i=0; i<x.length; i++){

if(x[i] > 5){

x[i] = “Coding”;

}

else if(x[i] < 0){

x[i] = “Dojo”;

}

    }

    return x;

}

console.log(a([5,7,-1,4]))

Output: [5, Coding, Dojo, 4]

*function* a(x){

if(x[0] > x[1]) {

return x[1];

}

return 10;

}

b = a([5,10]) // 10

console.log(b);

Output: 10

*function* sum(x){

sum = 0;

for(var i=0; i<x.length; i++){

sum = sum + x[i];

console.log(sum);

}

return sum;

}

Output: