



SUB-SEQUENCES

Stage1

```
function f1()
{
  console.log("Entering function");
  console.log("Leaving function");
}
f1();
```

Stage2

```
function sum(a,b)
{
  console.log("Entering function");
  let sum = a + b;
  console.log("The sum of a & b is --> " + sum);
  console.log("Leaving function");
}
sum(5,5);
```

Stage3

```
function sum(a,b = 20)
{
  console.log("Entering function");
  let sum = a + b;
  console.log("The sum of a & b is --> " + sum);
  console.log("Leaving function");
}
sum(5);
```



Stage4 (Spread Operator)



```
let a = [10,20];

function sum(a,b)
{
  console.log("Entering function");
  let sum = a + b;
  console.log("The sum of a & b is --> " + sum);
  console.log("Leaving function");
}

sum(...a);
```

Stage5

```
function sum(a,b)
{
  console.log("Entering function");
  let r = a + b;
  console.log("Leaving function");
  return r;
}
let result = sum(10,60);
console.log("The sum is --> " + result);
```

Stage6

```
ction sum()

console.log("Entering function");
  let r = arguments[0] + arguments[1];
  console.log("Leaving function");
  return r;
}

let result = sum(10,60);

console.log("The sum is --> " + result);
```

Stage7

```
function sum()
{
  let r = 0;
  console.log("Entering function");
  for(let i=0;i<arguments.length;i++)
  {
    r = r + arguments[i];
  }
  console.log("Leaving function");
  return r;
}
let result = sum(10,20,30,40);
console.log("The sum is --> " + result);
```

Stage8 (Rest Parameter)

```
ction sum(...a)

{
  let r = 0;
  console.log("Entering function");
  for(let i=0;i<a.length;i++)
  {
    r = r + a[i];
  }
  console.log("Leaving function");
  return r;
}

let result = sum(10,20,30,40);

console.log("The sum is --> " + result);
```

Stage9

```
function f1(a,b)
{
  console.log("Entering function");
  let sum = a + b;
  let average = sum / 2;
  let r = [sum,average]
  console.log("Leaving function");
  return r;
}

let result = f1(10,20);
  let [v1,v2] = f1(10,20);

console.log("The result is --> " + result);

console.log("The sum is --> " + v1);
  console.log("The average is --> " + v2);
```

Stage10

(i)

Stage11

```
function sum(a,b)
{
  console.log("Entering function");
  let r = a + b;
  console.log("Leaving function");
  return r;
}

let v1 = sum(1,2);
  let v2 = sum(v1,sum(3,4));
  let v3 = sum(sum(1,2),sum(sum(1,2),sum(1,2)));
  let v4 = v3 + sum(1,1) + sum(v2,sum(sum(4,5),sum(6,7)));

console.log("The value of v1 is --> ",v1);
  console.log("The value of v2 is --> ",v2);
  console.log("The value of v3 is --> ",v3);
  console.log("The value of v4 is --> ",v4);
```

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console.log("The average is --> ",v2);

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