

## HATFD1010

### Rotate a String Left by K Positions

Write a program to rotate a given string  $s$  left by  $k$  positions without using any built-in string functions. For example, rotating "abcdef" by 2 would give "cdefab".

**Instructions:** Do not use built-in rotation or substring functions. Implement the logic manually.

```
function rotate(s:string,a:number):string{
    let n=0;
    for (let value of s){
        n++;
    }

    let rot:string[]=new Array(n);
    for(let t=0;t<n;t++){
        rot[(t-a+n)%n]=s[t];
    }
    let res="";
    for(let t=0;t<n;t++){
        res+=rot[t];
    }
    return res;
}
```

```
const s1="abcdef";
const k1=2;
console.log(rotate(s1,k1));
```

```
const s2="ghijkl";
const k2=3;
console.log(rotate(s2,k2));
```

```
const s3="mnopqrst";
const k3=4;
console.log(rotate(s3,k3));
```