

Day 4

Sunday, 12 May, 2024 05:29 PM

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdef

A ☒

B ☒

C ☒

D ☐

E ☒

code 'a'
= 97 - 97
= 0 - index

abe
i = 0

S = abcde

ab
bd
cde
af

i = 3
j = 1
strs[j] = "f"

if(S.includes(strs[j])){
if it is true for every character of j
it means it is a good string
}

ans = 3

i = 0
currStr = "ab"

j = 0
ch = "a"

j = 1
ch = "b"

i = 1
currStr = "cd"

j = 0
ch = "c"

ans--
break

i = 2
currStr = "bef"

```

1 let S = "abcdef"
2 let arr = ["ab","cd","bef","az"]
3
4
5 let ans = arr.length
6
7 for(let i = 0; i < arr.length; i++){
8   let currStr = arr[i];
9   for(let j = 0; j < currStr.length; j++){
10    let ch = currStr[j]
11    if(!S.includes(ch)){
12      ans--;
13      break
14    }
15  }
16 }
17 }
18

```

For of loop iterates over item of array/string

```
2
3 let s = "hey"
4
5 let eCount = 0;
6
7
8
9 for(let ch of s){
10   console.log(ch)
11 }
12
```

Output: "h"
"e"
"y"

Use for of loop when you do not need index and want to iterate whole array/string

h e e e y
e = 3 i = 0, 1, 2 → 3 x 2
ans: h e e e e e y
h e e e y

```
1
2
3 let s = "hey"
4 let eCount = 0;
5 for(let ch of s){
6   if(ch=="e"){
7     eCount++
8   }
9 }
10
11 let ans = "h"
12 for(let i=0; i<eCount; i++){
13   ans+="ee"
14 }
15 ans+="y"
16 console.log(ans)
17
```

```
1
2 let s = "heeeey"
3 let eCount = s.length-2;
4
5
6
7 let ans = "h"
8 for(let i=0; i<eCount; i++){
9   ans+="ee"
10 }
11 ans+="y"
12 console.log(ans)
13
14
15 let ans = `h${eCount*2}y`
16
```

Removed loop to count e

```
let s = "heeeey"
let eCount = s.length-2;

let ans = `h${"e".repeat(eCount*2)}y`
console.log(ans)
```

Repeat function can repeat a string given number of times

acciojob
4 5 6 7 0 2 1 3

→

acciojob
→ 4 5 6 7 0 2 1 3
oojbacci

S L A U P
2 4 1 0 3
UASPL

i = 0
pos = arr[i] = 4
ch = str[i] = "a"
newArr = [,,,,"a","c",,,,]
newArr[pos] = ch

i = 1
pos = 5
ch = c
newArr[pos] = ch

```
let str = "acciojob"
let arr = [3,2,7,0,1,4,5,6]

const ans = new Array(arr.length).fill("")

for(let i = 0; i < arr.length; i++){
  const pos = arr[i]
  const ch = str[i]

  ans[pos] = ch
}

console.log(ans.join(""))
```

```
ans = [ , , c , a , , , , ]

i = 0

pos = 3

ch = a

i = 1

pos = 2
ch = c
```

```
1 // ...
2 let arr = [3,2,7,0,1,4,5,6]
3
4 const ans = new Array(arr.length).
5
6 for(let i = 0; i < arr.length; i++){
7   const pos = arr[i]
8   const ch = str[i]
9   ans[pos] = ch
10 }
11
12
13 console.log(ans.join(""))
14
```

Compressed String

