

## Day-40

### Python DSA

#### Leetcode 1903 Largest Odd Number in String

<https://leetcode.com/problems/largest-odd-number-in-string/description/>

```
class Solution:
    def largestOddNumber(self, num: str) -> str:
        n= len(num)
        for i in range(n-1,-1,-1):
            if int(num[i])%2==1:
                return num[:i+1]
        return ""
```

TC- O(N)

SC- O(N)

#### Leetcode 14 Largest Common Prefix

<https://leetcode.com/problems/longest-common-prefix/description/>

```
class Solution:
    def longestCommonPrefix(self, strs: List[str]) -> str:
        if len(strs)==0:
            return ""
        result= ""
        base= strs[0]
        for i in range(len(base)):
            for word in strs[1:]:
                if i==len(word) or word[i]!=base[i]:
                    return result
            result +=base[i]
```

TC- O(N \*M)

SC- O(M)