Day 1

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Outline

- **LC 5 Longest Palindromic Substring**
- **LC 185 Department Top Three Salaries**
- **Brain stellar: Rolling the Bullet**

LC 5 Longest Palindromic Substring

```python
def longestPalindrome(self,s)->str:
    n = len(s)
    dp = [[False]*n for _ in range(n)]
    ans = [0,0]

    for i in range(n):
        dp[i][i] = True

    for i in range(n-1):
        if s[i]==s[i+1]:
            dp[i][i+1]=True
            ans = [i,i+1]

    for diff in range(2,n):
        for i in range(n-diff):
            j = i + diff
            if s[i] == s[j] and dp[i+1][j-1]:
                dp[i][j] = True
                ans = [i,j]
```

```
    i,j = ans
    return s[i:j+1]
```