

## DOUBT 02: Remove ALL Occurrences of a Substring (Leetcode-1910)

Example 1:

Input:  $s = \text{"daabcbaabcbcb"}$ ,  $part = \text{"abc"}$

Output:  $\text{"dab"}$

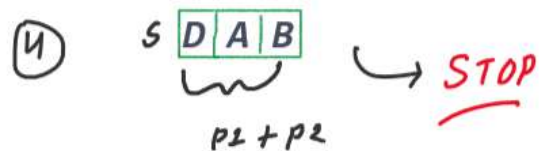
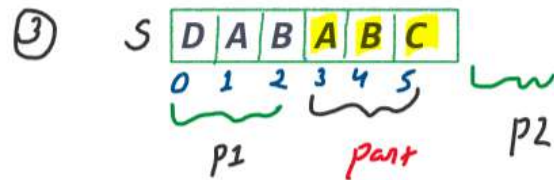
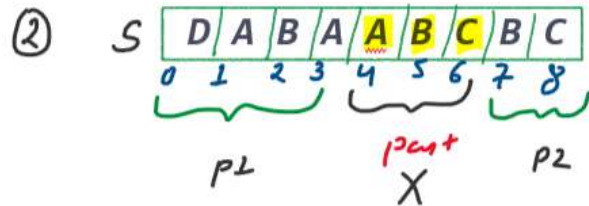
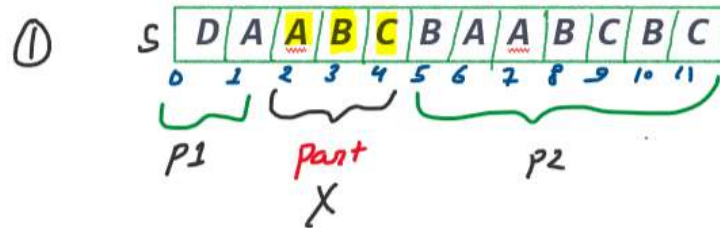
Example 2:

Input:  $s = \text{"axxyxyxyxyb"}$ ,  $part = \text{"xy"}$

Output:  $\text{"ab"}$

 **APPROACH 01: Without erase method**

EX:01



Psize = 3, Ssize = 12

S.find(part)  $\Rightarrow$  First Index of  
 First character of  
 PART  
 $\Rightarrow$  2 Index

P1  $\Rightarrow$  S.substr(0, 2)  
 $\Rightarrow$  DA

P2  $\Rightarrow$  S.substr(2+3, 12)  
 $\Rightarrow$  BAABCB C

S  $\Rightarrow$  P1 + P2  
 $\Rightarrow$  DABAABCB C

Loop jab tak chaluja jab  
 tak part milna Band nahi  
 Hoga.

```
// DOUBT 02: Remove All Occurrences of a Substring (Leetcode-1910)
```

```
class Solution {
```

```
public:
```

```
    // APPROACH 01: Without erase method
```

```
    string removePart1(string s, string part){
```

```
        while(true){
```

```
            int found = s.find(part);
```

```
            if(found == string::npos) break;
```

```
            // We have to remove the part
```

```
            string LP = s.substr(0,found);
```

```
            string RP = s.substr(found + part.size(), s.size());
```

```
            // Concat both part LP and RP
```

```
            s = LP + RP;
```

```
        }
```

```
        // Step 02: return s
```

```
        return s;
```

```
    }
```

```
    // APPROACH 02: With erase method
```

```
    string removePart2(string s, string part){
```

```
        while(s.find(part) != string::npos){
```

```
            s.erase(s.find(part),part.length());
```

```
        }
```

```
        return s;
```

```
    }
```

```
    // Remove occurrences from substring s
```

```
    string removeOccurrences(string s, string part) {
```

```
        return removePart2(s,part);
```

```
    }
```

```
};
```

```
/*
```

```
Example 1:
```

```
Input: s = "daabcbabacbbc", part = "abc"
```

```
Output: "dab"
```

```
Example 2:
```

```
Input: s = "axxxxyyyyb", part = "xy"
```

```
Output: "ab"
```

```
*/
```