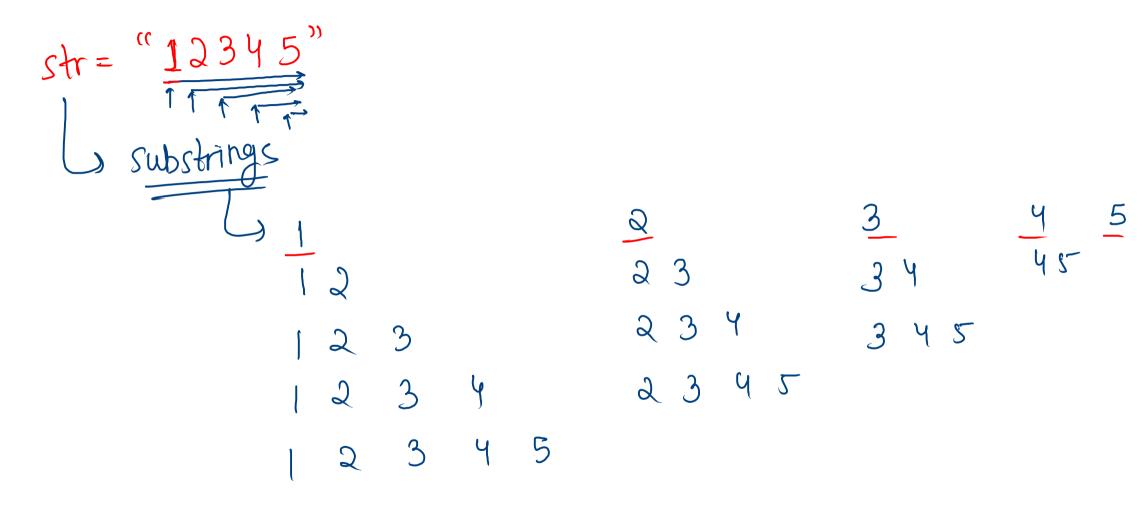
Greekster 1. 1. Substring (inbuilt)

a) str. substring (si); // Greekster

Sum of All Substrings



```
Code
```

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    String str = scn.nextLine();

    System.out.println(sumOfSubstrings(str));
}

public static int sumOfSubstrings(String str) {
    int sum = 0;
    for (int i = 0; i < str.length(); i++) {
        for (int j = i; j < str.length(); j++) {
            sum += Integer.valueOf(str.substring(i, j + 1));
        }
    }
    return sum;
}</pre>
```

```
Inbuilt functions

Integer. parseInt (str);

Integer. value Of (str);
```

Desired String

```
public static void desiredString(String str) {
    int count = 0;
   int len = 0;
    String longestSub = "";
 →for (int i = 0; i < str.length(); i++) {
    for (int j = i + 1; j < str.length(); j++) { // single char case will exclude
            String sub = str.substring(i, j + 1);
            if ( sub.charAt(0) == 'A' \&\& sub.charAt(sub.length() - 1) == 'A' ) {
             -->count++;
                if ( len < sub.length() ) {</pre>
                    len = sub.length();
                    longestSub = sub;
    if (count != 0) {
        System.out.println(count);
        System.out.println(len);
        System.out.println(longestSub);
    } else {
        System.out.println(-1);
```

```
LS = 9 " "ABA" "ABADA"
C=0123
  J=035
  str=ABADA
           Jen=3
        BAD
        BADA
          7A Jen=3
```

Power of a String (find substring of max. length with a unique chor)

abbcccddddeeeeeffgghheecccc

I generate all substrings

I if char are unique

or not (avorey as hashmap)

(count same char) L'ecece E G keep updaring for better ans

```
T_{\circ}C = O(N)
\begin{cases} an = 0 \\ Count = 1 \end{cases}
N - Jen of str
abbcccddddeeeee ffgghheecccc
   Count length = X & 3 4 5
                                             ars = Ø X & 3 4 5
public static int powerString(String str) {
                                           i=0, j=1
   int i = 0;
                                           (= 1=, j=23
   int count = 1;
   int ans = 0;
                                           (= 3,j=45/6
  while (i < str.length()) {</pre>
     while (j < str.length()) {

if ( str.charAt(i) != str.charAt(j) ) { (=6,j=78910
                                           i=10, j=1 18 18 18 15
             ans = Math.max( ans, count );
             count = 1;
             break;
                                           i= 15, j=16/17
                                           i= 17 , j= 18 19
                                           (=21 , j=22 23
   ans = Math.max( ans, count );
                                           i=23 , i= 24 25 26 27
   return ans;
```