String Operations

## **String Concatenation**

String 
$$S1 = "new"$$
;  $S1 = "new"$ ;  $S1 = "n$ 

# **String Comparation**

shing 
$$SI = "algc"$$
;  $S2 > SI$ 

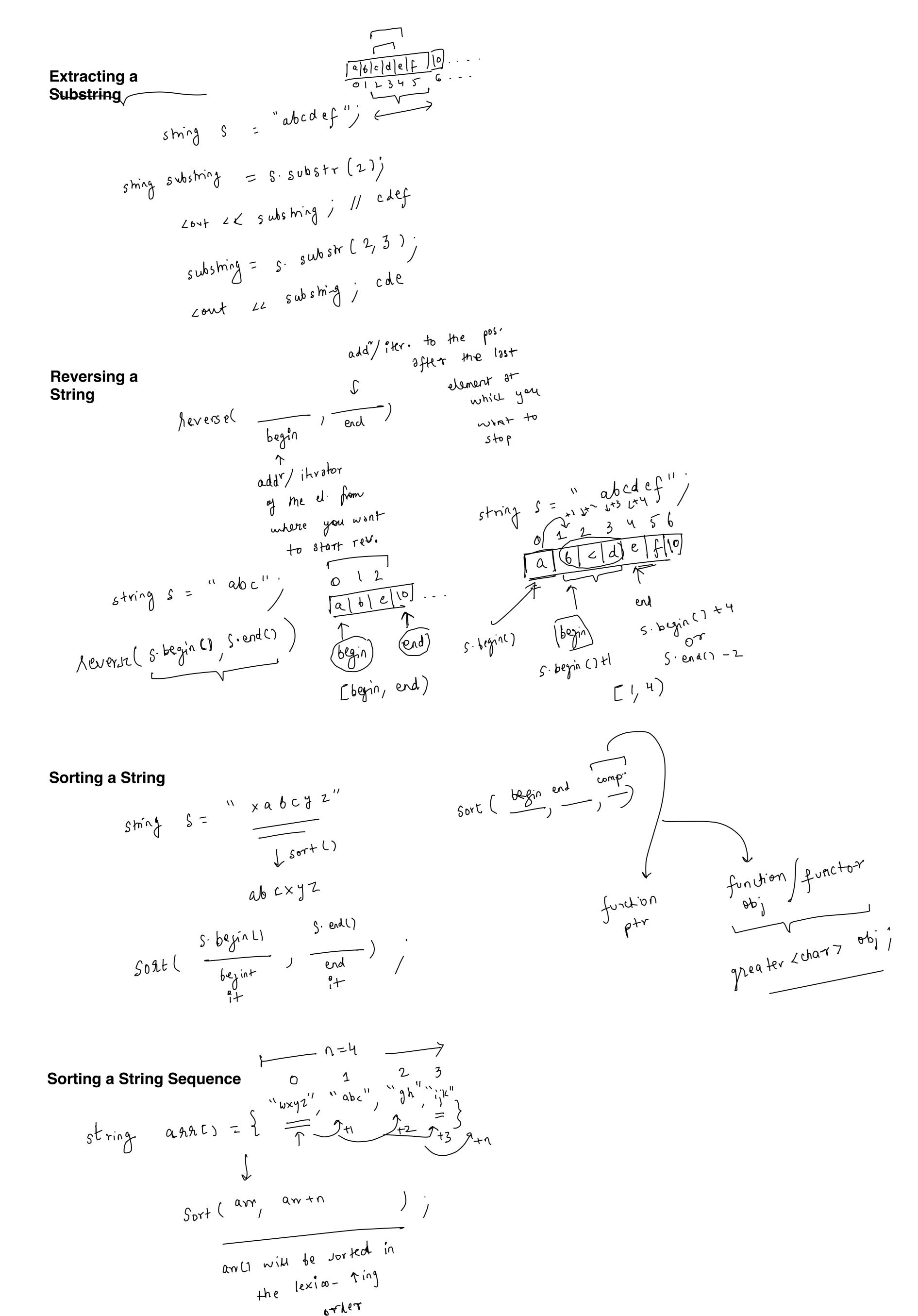
Shing  $S2 = "algc"$ ;

 $SI = (algc")$ ;

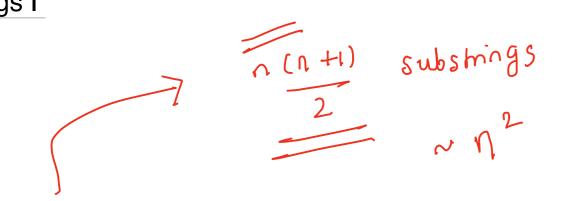
 $S$ 

[size\_t]

# Searching in a String 0123)456785 -231 to 2 1-1 -2 (int)



Generate Sub-Strings I



### Generate Sub-Strings I $\sim$

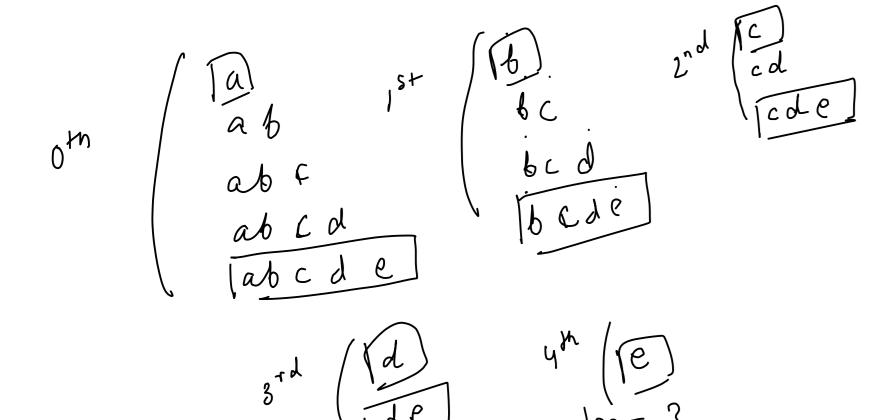
Given a string, design an algorithm to generate all of its sub-strings.

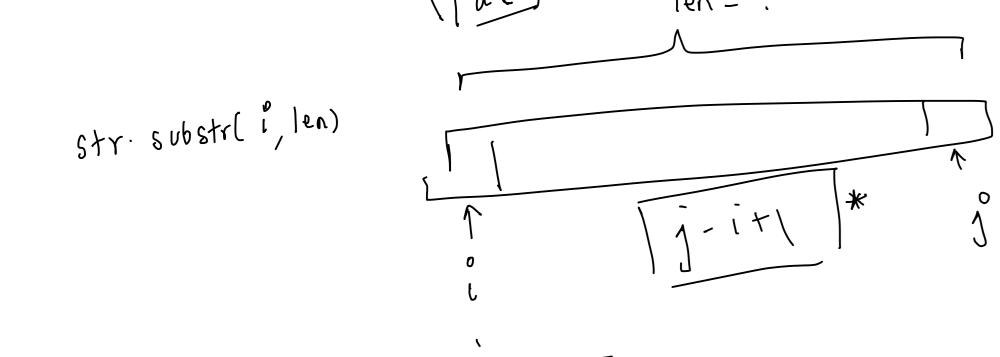
We define a sub-string of an string as a contiguous part of the given string.

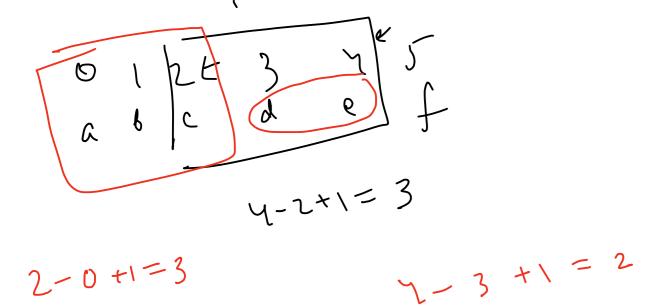
# **Example**

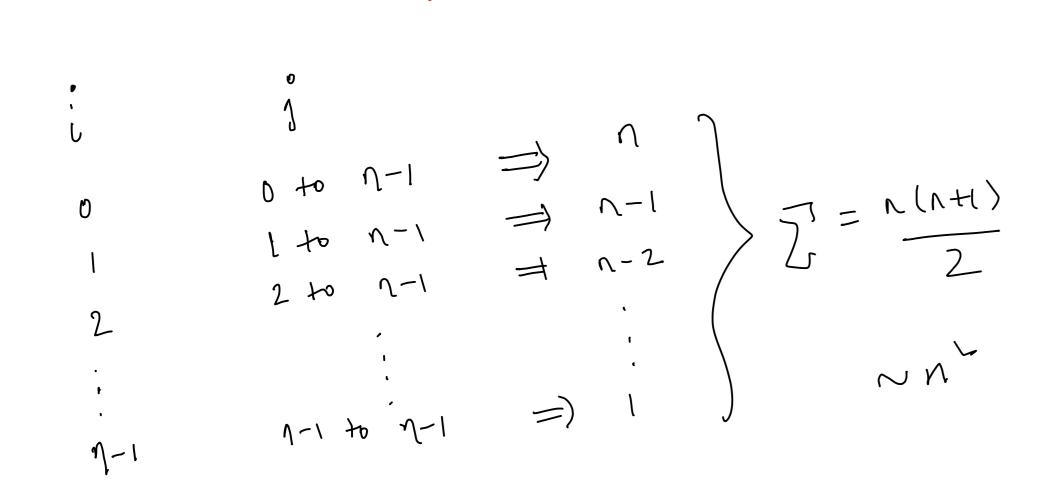
Input : "abcde"

 $0 \leq \frac{n}{L} \leq \gamma - 1$ 







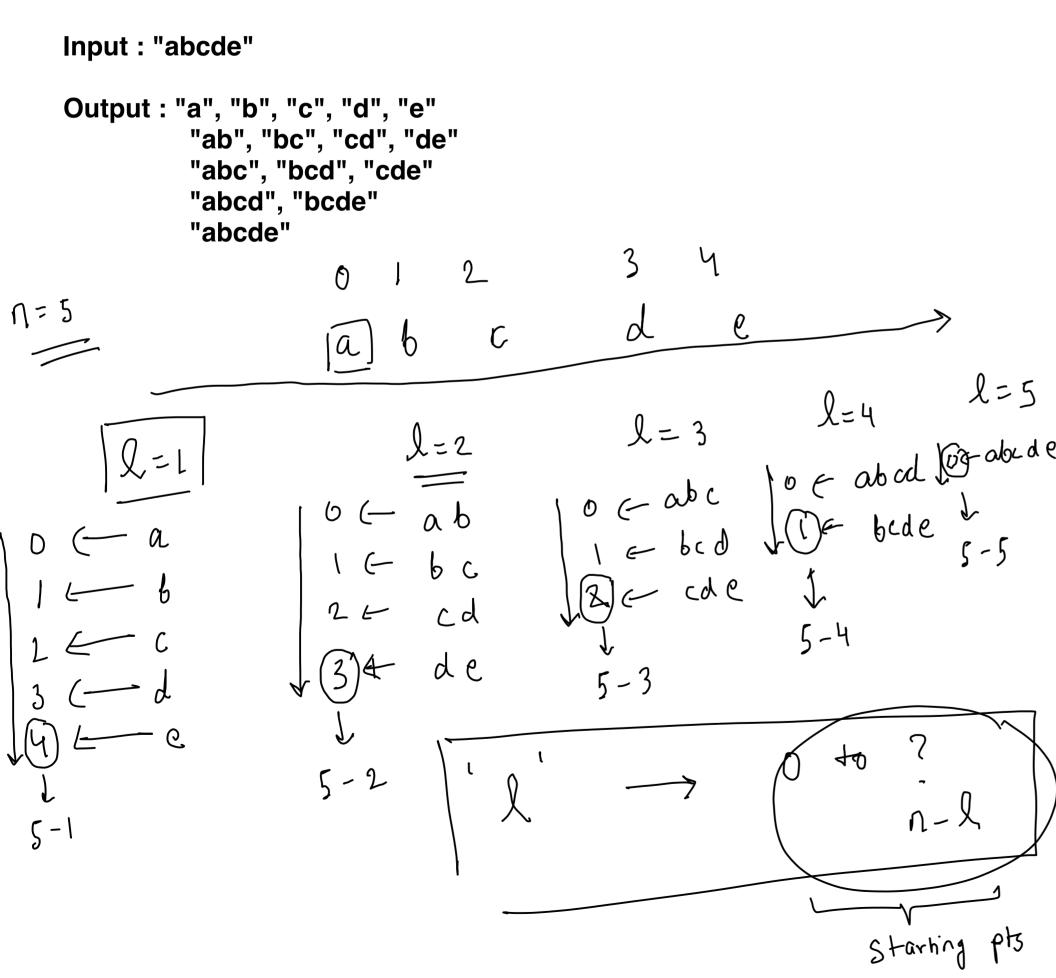


#### **Generate Sub-Strings II**

Given a string, design an algorithm to generate all of its **sub-strings** length-wise.

We define a **sub-string** of an string as a **contiguous** part of the given string.

#### **Example**

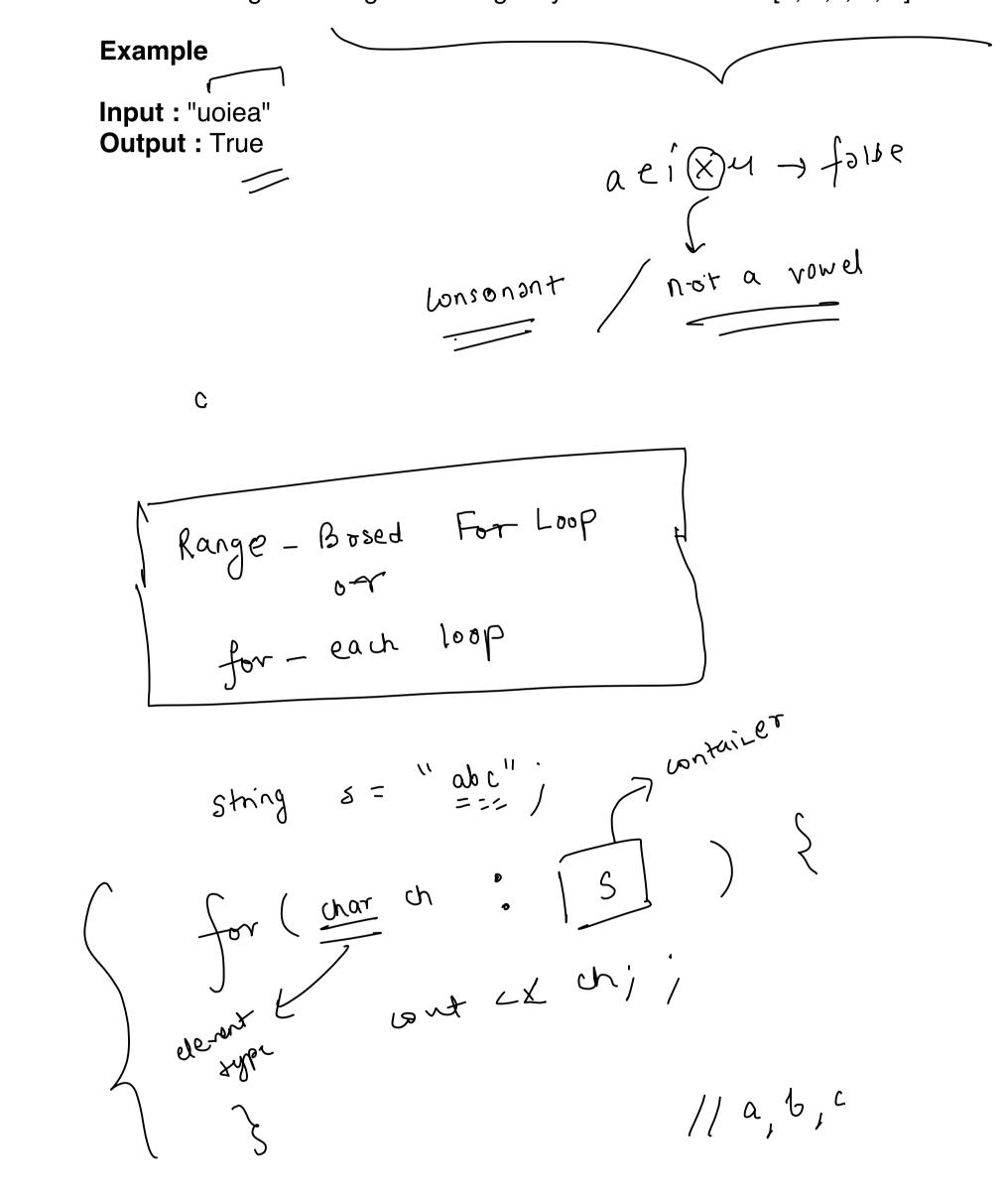


Check Good Strings

## Check Good Strings

Given a string **str**, design an algorithm to check it is a **good string**.

We define a good string as a string only contains **vowels** [a, e, i, o, u].



#### Longest Good Sub-String

#### **Longest Good Sub-String**



Given a string str, design an algorithm to find the length of its longest good sub-string.

We define a good sub-string of **str** as a sub-string that only contains **vowels** [a, e, i, o, u].



Input : "cbaeicdeiou"

Output: 4

