## 1624. Largest Substring Between Two Equal Characters

Given a string return length of longest substring between two equal characters. If none, return -1

## Examples:

Input: "abcdeaei"

Output: 4

I dea was a "sliding window" approach

"abedeaei" result =-1

" à be de crei" result = -1

"abcdeaei" result=4

Question: how do we determine which side to increment/decrement?

I don't think it is possible. We do not know where the matching characters are and it is either valid or invalid.

## Neu approach:

- 1. I terate over entire array and set the first index of new/unique characters.
- I terate over entire array and if index for character do not natch, update.
- 3) Return result

```
int maxlent const stol :: string ' s) {
     int result 4 -1 3;
     std:: unordered-map < char, int 7 m;
     for (int i=0; i2 s.sizel); +i) {
          if (!n.contains(s[i])){
              M[s[i]] = i;
          3
     3
     for (int i=0; i < s.size() j ++i) {
         if ( n. contains (S[i])) {
             constante li-nlsli7] -1 3;
             result = std:: max( result, distance);
          }
      3
     return result;
3
```