Problem Link:

[https://leetcode.com/problems/longest-palindromic-substring/](https://leetcode.com/problems/longest-palindromic-substring/submissions/1552497812/)

Solution:

class Solution {

public:

string longestPalindrome(string s) {

if (s.empty())

return "";

int start = 0, end = 0;

for(int i = 0; i < s.length(); i++)

{

int len1 = expString(s, i, i);

int len2 = expString(s, i, i + 1);

int len = max(len1, len2);

if(len > (end - start))

{

start = i - (len - 1) / 2;

end = i + len / 2;

}

}

return s.substr(start, end - start + 1);

}

private:

int expString(string& s, int left, int right) {

while(left >= 0 && right < s.length() && s[left] == s[right])

{

left--;

right++;

}

return right - left - 1;

}

};