

Longest Palindromic Substring

```
1 class Solution(object):
2     def longestPalindrome(self, input):
3         """
4         input: string input
5         return: string
6         """
7         # write your solution here
8         start = 0
9         end = 0
10
11        for i in range(len(input)):
12            len1 = self.expandAroundCenter(input, i, i)
13            len2 = self.expandAroundCenter(input, i, i + 1)
14            length = max(len1, len2)
15
16            if length > end - start:
17                start = i - (length - 1) // 2
18                end = i + length // 2
19        return input[start: end+1]
20
21    def expandAroundCenter(self, input, l, r):
22        while l >= 0 and r < len(input) and input[l] == input[r]:
23            l -= 1
24            r += 1
25        return r - l - 1
26
```