

This is [HAOI2009]求回文串. Reduce to counting inversions <https://leetcode-cn.com/problems/minimum-number-of-moves-to-make-palindrome/solution/de-dao-hui-wen-chuan-de-zui-shao-cao-zuo-nn>s/.  $O(n \log n)$  or  $O(n\sqrt{\log n})$ .