- How to break the problem down into smaller q?
  - In other words, how to build from base cases to bigger problem?
- After figuring out the recursive relation, think about memoization

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- from a substring i -> j

dp[i,j] = s[i] == s[j] && dp[i+1][j-1]

s[i] == s[j]: the current condition

dp[i+1][j-1]: the prev condition (smaller problem)

1. base case:
   - all the single len is a pali
   - add all the 2 len palidrome

2. recursive
   - the range of potential pali is 1 - len(num)
     so we have to iterate through all the possible len of the palidrome

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- Instead of iterating over each potential length, we start from the middle.