Problem Link:

<https://leetcode.com/problems/longest-palindrome-by-concatenating-two-letter-words/?envType=daily-question&envId=2025-05-25>

Solution:

class Solution {

public:

int longestPalindrome(vector<string>& words) {

unordered\_map<string, int> m;

for(const string& w : words)

{

m[w]++;

}

int r = 0;

bool b = false;

for(auto& [w, f] : m)

{

string rev = string{w.rbegin(), w.rend()};

if(w == rev)

{

r += (f / 2) \* 4;

if(f % 2 == 1)

{

b = true;

}

}

else if(w < rev && m.find(rev) != m.end())

{

int pairs = min(f, m[rev]);

r += pairs \* 4;

}

}

if(b)

{

r += 2;

}

return r;

}

};