Problem Link:

<https://leetcode.com/problems/letter-tile-possibilities/?envType=daily-question&envId=2025-02-17>

Solution:

class Solution {

public:

int numTilePossibilities(string tiles) {

unordered\_map<char, int> m;

for(char c : tiles)

{

m[c]++;

}

return backtrack(m);

}

private:

int backtrack(unordered\_map<char, int>& m) {

int total = 0;

for(auto& p : m)

{

if(p.second > 0)

{

p.second--;

total++;

total += backtrack(m);

p.second++;

}

}

return total;

}

};