Problem Link:

<https://leetcode.com/contest/weekly-contest-454/problems/generate-tag-for-video-caption/>

Solution:

class Solution {

public:

string generateTag(string caption) {

vector<string> words;

string word, result = "#";

for(char c : caption)

{

if(c == ' ')

{

if(!word.empty())

{

words.push\_back(word);

word.clear();

}

}

else

{

word += c;

}

}

if(!word.empty())

{

words.push\_back(word);

}

for(int i = 0; i < words.size(); ++i)

{

string w = words[i];

if(w.empty())

continue;

for(char &ch : w)

ch = tolower(ch);

if(i > 0)

w[0] = toupper(w[0]);

result += w;

}

string s = "#";

for(int i = 1; i < result.size(); ++i)

{

if(isalpha(result[i]))

{

s += result[i];

}

}

if(s.length() > 100)

{

s = s.substr(0, 100);

}

return s;

}

};