Problem Link:

<https://leetcode.com/problems/compare-version-numbers/description/?envType=daily-question&envId=2025-09-23>

Solution:

class Solution {

public:

int compareVersion(string version1, string version2) {

vector<int> v1 = split(version1);

vector<int> v2 = split(version2);

int m = max(v1.size(), v2.size());

for(int i = 0; i < m; ++i)

{

int a = i < v1.size() ? v1[i] : 0;

int b = i < v2.size() ? v2[i] : 0;

if(a < b)

return -1;

if(a > b)

return 1;

}

return 0;

}

private:

vector<int> split(const string& version) {

vector<int> v;

int i = 0, s = version.size();

while(i < s)

{

int n = 0;

while(i < s && version[i] != '.')

{

n = n \* 10 + (version[i] - '0');

++i;

}

v.push\_back(n);

++i;

}

return v;

}

};