

## 一、题目说明

11.Container With Most Water, 这个题目难度是**Medium**。

## 二、我的做法

乍一看，简单啊，两个for循环就可以了，我在本地写的。

```
#include<iostream>
#include<vector>
#include<math.h>
using namespace std;

class Solution{
public:
    int maxArea(vector<int> &height){
        int max = 0;
        int currHeight=0;
        for(int i=0;i<height.size()-1;i++){
            for(int j=i+1;j<height.size();j++){
                currHeight = height[j]>height[i] ? height[i] : height[j];

                int area = currHeight*(j-i);
                max = max < area ? area: max;
            }
        }

        return max;
    }
};

int main(){
    Solution s;
    vector<int> v = {1,8,6,2,5,4,8,3,7};
    cout<<(49==s.maxArea(v));
    return 0;
}
```

提交后运行，居然Time Limit Exceeded是，好伤心。

里面给了一个非常长的数据，实际上我本地运行时间大概2-3秒吧。不过既然错了，我的重新思考一下。

这里面最大的问题在于“不动脑子”直接用双重循环，其实单重循环就可以的。

## 三、改进

首先用单重循环实现，时间20秒，原谅我贴出来测试代码居然这么长。

```
#include<iostream>
#include<vector>
using namespace std;

class Solution{
public:
    int maxArea(vector<int> &height){
```

```

        int left=0,right=height.size()-1,maxarea=0,currarea=0,currheight;
        while(left<right){
            currheight = height[left]>height[right]?height[right] :
height[left];
            currarea = currheight*(right-left);
            if(currarea>maxarea){
                maxarea = currarea;
            }
            if(height[left]>height[right]){
                right--;
            }else{
                left++;
            }
        }

        return maxarea;
    }
};

int main(){
    Solution s;
    vector<int> v = {1,8,6,2,5,4,8,3,7};
    cout<<(49==s.maxArea(v))<<endl;
}

```

V =

{15000,14999,14998,14997,14996,14995,14994,14993,14992,14991,14990,14989,14988,14987,14986,14985,14984,14983,14982,14981,14980,14979,14978,14977,14976,14975,14974,14973,14972,14971,14970,14969,14968,14967,14966,14965,14964,14963,14962,14961,14960,14959,14958,14957,14956,14955,14954,14953,14952,14951,14950,14949,14948,14947,14946,14945,14944,14943,14942,14941,14940,14939,14938,14937,14936,14935,14934,14933,14932,14931,14930,14929,14928,14927,14926,14925,14924,14923,14922,14921,14920,14919,14918,14917,14916,14915,14914,14913,14912,14911,14910,14909,14908,14907,14906,14905,14904,14903,14902,14901,14900,14899,14898,14897,14896,14895,14894,14893,14892,14891,14890,14889,14888,14887,14886,14885,14884,14883,14882,14881,14880,14879,14878,14877,14876,14875,14874,14873,14872,14871,14870,14869,14868,14867,14866,14865,14864,14863,14862,14861,14860,14859,14858,14857,14856,14855,14854,14853,14852,14851,14850,14849,14848,14847,14846,14845,14844,14843,14842,14841,14840,14839,14838,14837,14836,14835,14834,14833,14832,14831,14830,14829,14828,14827,14826,14825,14824,14823,14822,14821,14820,14819,14818,14817,14816,14815,14814,14813,14812,14811,14810,14809,14808,14807,14806,14805,14804,14803,14802,14801,14800,14799,14798,14797,14796,14795,14794,14793,14792,14791,14790,14789,14788,14787,14786,14785,14784,14783,14782,14781,14780,14779,14778,14777,14776,14775,14774,14773,14772,14771,14770,14769,14768,14767,14766,14765,14764,14763,14762,14761,14760,14759,14758,14757,14756,14755,14754,14753,14752,14751,14750,14749,14748,14747,14746,14745,14744,14743,14742,14741,14740,14739,14738,14737,14736,14735,14734,14733,14732,14731,14730,14729,14728,14727,14726,14725,14724,14723,14722,14721,14720,14719,14718,14717,14716,14715,14714,14713,14712,14711,14710,14709,14708,14707,14706,14705,14704,14703,14702,14701,14700,14699,14698,14697,14696,14695,14694,14693,14692,14691,14690,14689,14688,14687,14686,14685,14684,14683,14682,14681,14680,14679,14678,14677,14676,14675,14674,14673,14672,14671,14670,14669,14668,14667,14666,14665,14664,14663,14662,14661,14660,14659,14658,14657,14656,14655,14654,14653,14652,14651,14650,14649,14648,14647,14646,14645,14644,14643,14642,14641,14640,14639,14638,14637,14636,14635,14634,14633,14632,14631,14630,14629,14628,14627,14626,14625,14624,14623,14622,14621,14620,14619,14618,14617,14616,14615,14614,14613,14612,14611,14610,14609,14608,14607,14606,14605,14604,14603,14602,14601,14600,14599,14598,14597,14596,14595,14594,14593,14592,14591,14590,14589,14588,14587,14586,14585,14584,14583,14582,14581,14580,14579,14578,14577,14576,14575,14574,14573,14572,14571,14570,14569,14568,14567,14566,14565,14564,14563,14562,14561,14560,14559,14558,14557,14556,14555,14554,14553,14552,14551,14550,14549,14548,14547,14546,14545,14544,14543,14542,14541,14540,14539,14538,14537,14536,14535,14534,14533,14532,14531,14530,14529,14528,14527,14526,14525,14524,14523,14522,14521,14520,14519,14518,14517,14516,14515,14514,14513,14512,14511,14510,14509,14508,14507,14506,14505,14504,14503,14502,14501,14500,14499,14498,14497,14496,14495,14494,14493,14492,14491,14490,14489,14488,14487,14486,14485,14484,14483,14482,14481,14480,14479,14478,14477,14476,14475,14474,14473,14472,14471,14470,14469,14468,14467,14466,14465,14464,14463,14462,14461,14460,14459,14458,14457,14456,14455,14454,14453,14452,14451,14450,14449,14448,14447,14446,14445,14444,14443,14442,14441,14440,14439,14438,14437,14436,14435,14434,14433,14432,14431,14430,14429,14428,14427,14426,14425,14424,14423,14422,14421,14420,14419,14418,14417,14416,14415,14414,14413,14412,14411,14410,14409,14408,14407,14406,14405,14404,14403,14402,14401,14400,14399,14398,14397,14396,14395,14394,14393,14392,14391,14390,14389,14388,14387,14386,14385,14384,14383,14382,14381,14380,14379,14378,14377,14376,14375,14374,14373,14372,14371,14370,14369,14368,14367,14366,14365,14364,14363,14362,14361,14360,14359,14358,14357,14356,14355,14354,14353,14352,14351,14350,14349,14348,14347,14346,14345,14344,14343,14342,14341,14340,14339,14338,14337,14336,14335,14334,14333,14332,14331,14330,14329,14328,14327,14326,14325,14324,14323,14322,14321,14320,14319,14318,14317,14316,14315,14314,14313,14312,14311,14310,14309,14308,14307,14306,14305,14304,14303,14302,14301,14300,14299,14298,14297,14296,14295,14294,14293,14292,14291,14290,14289,14288,14287,14286,14285,14284,14283,14282,14281,14280,14279,14278,14277,14276,14275,14274,14273,14272,14271,14270,14269,14268,14267,14266,14265,14264,14263,14262,14261,14260,14259,14258,14257,14256,14255,14254,14253,14252,14251,14250,14249,14248,14247,14246,14245,14244,14243,14242,14241

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5,34,33,32,31,30,29,28,27,26,25,24,23,22,21,20,19,18,17,16,15,14,13,12,11,10,9,8
,7,6,5,4,3,2,1};
    cout<<(s.maxArea(v));
    return 0;
}

```

继续优化，到16秒，居然i++的性能比 i+=1性能差着多？

```

#include<iostream>
#include<vector>
#include<math.h>
using namespace std;

class Solution{
public:
    int maxArea(vector<int> &height){
        int left=0,right=height.size()-1,maxarea=0;
        while(left<right){
            maxarea = max(maxarea,min(height[left],height[right]))*(right-
left));
            if(height[left]>height[right]){
                right-=1;
            }else{
                left+=1;
            }
        }

        return maxarea;
    }
};

int main(){
    Solution s;
    vector<int> v = {1,8,6,2,5,4,8,3,7};
    cout<<(49==s.maxArea(v))<<endl;
    return 0;
}

```

真是亮瞎我的钛合金狗眼啊。醉了！

```

Runtime: 16 ms, faster than 96.29% of C++ online submissions for Container With
Most Water.
Memory Usage: 9.8 MB, less than 67.01% of C++ online submissions for Container
With Most Water.

```