



```
Share
                                                                        Output
main.cpp
                                                                                                                                      Clear
                                                              Run
                                                                       Maximum Area: 49
 1 #include <vector>
    #include <iostream>
   #include <algorithm>
    int maxArea(std::vector<int>& height) {
        int left = 0;
 6
 7
        int right = height.size() - 1;
        int maxArea = 0;
 8
 9
        while (left < right) {</pre>
10
            int width = right - left;
11
            int currentHeight = std::min(height[left], height[right]
                );
            int currentArea = width * currentHeight;
12
13
            maxArea = std::max(maxArea, currentArea);
14
            if (height[left] < height[right]) {</pre>
15
                left++;
16
            } else {
17
                right--;
18
19
20
     return maxArea;
21 }
22 int main() {
        std::vector<int> height = {1, 8, 6, 2, 5, 4, 8, 3, 7};
23
24
        std::cout << "Maximum Area: " << maxArea(height) << std</pre>
            ::endl:
25
        return 0;
26 }
27
```







