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| **Facing the sun in C++** | |
| #include <iostream>  #include <vector>  using namespace std;  class FacingTheSun {  public:  static int countBuildings(vector<int>& ht) {  int lmax = ht[0];  int count = 1;  for (int i = 1; i < ht.size(); i++) {  if (ht[i] > lmax) {  count++;  lmax = ht[i];  }  }  return count;  }  };  int main() {  // Hardcoded input  int n = 6;  vector<int> ht = {7, 4, 8, 2, 9, 6};  // Call the countBuildings function to count buildings facing the sun  int result = FacingTheSun::countBuildings(ht);  // Print the result  cout << "Number of buildings facing the sun: " << result << endl;  return 0;  } | Input: ht = {7, 4, 8, 2, 9, 6} 🔍 Dry Run Table:  | **Index (i)** | **Height ht[i]** | **Current lmax** | **Is ht[i] > lmax?** | **Count** | **New lmax** | | --- | --- | --- | --- | --- | --- | | 0 | 7 | 7 | - (first building) | 1 | 7 | | 1 | 4 | 7 | No | 1 | 7 | | 2 | 8 | 7 | Yes | 2 | 8 | | 3 | 2 | 8 | No | 2 | 8 | | 4 | 9 | 8 | Yes | 3 | 9 | | 5 | 6 | 9 | No | 3 | 9 |  ✅ Final Result: **Number of buildings facing the sun = 3**  🖨️ Output:  Number of buildings facing the sun: 3 |
| Number of buildings facing the sun: 3 | |