**Find the Highest number**

Given an integer array **a[]** of size **n**, find the highest element of the array. The array will either be strictly increasing or strictly increasing and then strictly decreasing.

**Note:**a[i] != a[i+1]

**Example 1:**

**Input:**

11

1 2 3 4 5 6 5 4 3 2 1

**Output:**6

**Explanation:**Highest element of array a[] is 6.

**Example 2:**

**Input:**

5

1 2 3 4 5

**Output:**5

**Explanation:**Highest element of array a[] is 5.

**Your Task:**  
You don't need to read or print anything. Your task is to complete the function **findPeakElement()**which takes integer **n**, and the array **a[]** as the input parameters and returns the highest element of the array.

**Expected Time Complexity:**O(log(n))  
**Expected Space Complexity:**O(1)

**Constraints:**  
2 <= n <= 106  
1 <= a[i] <= 106

Code :

class Solution {

public:

int findPeakElement(vector<int>& a)

{

// Code here.

int maxi =0;

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

maxi = max(maxi , a[i]);

}

return maxi;

}

};

Link : <https://www.geeksforgeeks.org/problems/find-the-highest-number2259/1>