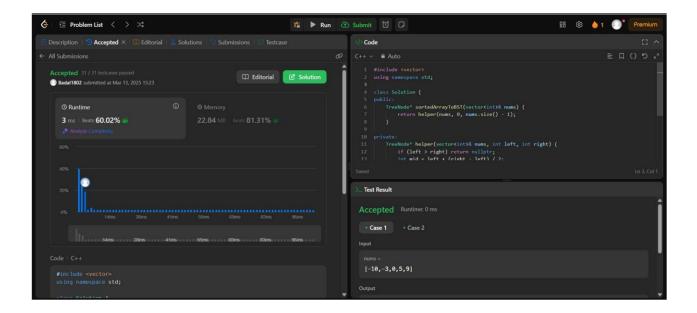
108. Convert Sorted Array to Binary Search Tree

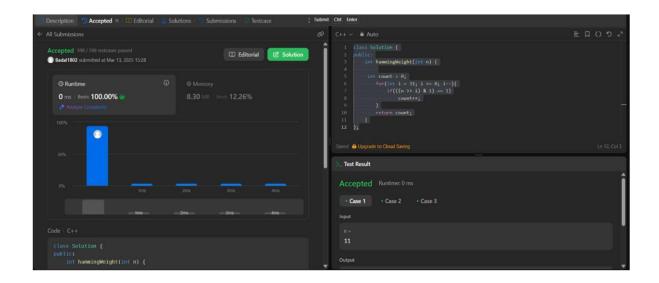
```
CODE:
#include
            <vector>
using namespace std;
class Solu on {
public:
  TreeNode* sortedArrayToBST(vector<int>& nums) {
return helper(nums, 0, nums.size() - 1);
  }
private:
  TreeNode* helper(vector<int>& nums, int le, int right)
      if (le > right) return nullptr;
                                       int mid = le +
(right - le) / 2;
    TreeNode* root = new TreeNode(nums[mid]);
root->le = helper(nums, le, mid - 1);
                                         root-
>right = helper(nums, mid + 1, right);
                                          return
root;
  }
};
```

OUTPUT:



191. Number of 1 Bits

OUTPUT:



912.Sort an Array CODE: class Solu on { public: void merge(vector<int>&nums,int start,int mid,int end) { vector<int>temp(end-start+1); int le =start,right = mid+1,index =0; while(le <=mid && right<=end) { if(nums[le]<=nums[right]) { temp[index]=nums[le]; index+++,le++; } else { temp[index]=nums[right]; index+++,right++;

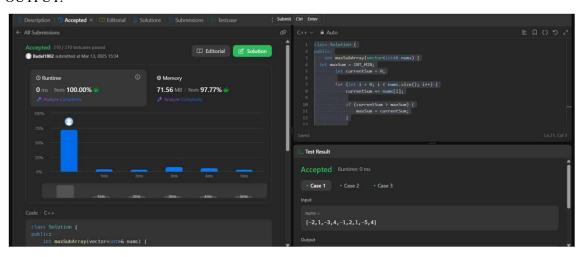
```
}
    //if le array remains
while(le <=mid)
       temp[index]=nums[le];
index++,le ++;
     }
    //if right array remains
while(right<=end)
       temp[index]=nums[right];
       index++,right++;
     }
    //put the values in the original
          index = 0;
array
while(start<=end)
       nums[start] = temp[index];
start++,index++;
     }
  void mergesort(vector<int>&nums,int start,int end)
     if(start==end)
return;
     int mid = start+(end-start)/2;
    //le side
mergesort(nums,start,mid);
```

```
//rightside
mergesort(nums,mid+1,end);
    //merge
    merge(nums,start,mid,end);
}

vector<int> sortArray(vector<int>& nums) {
    //calling the mergesort func on for performing merge sort
mergesort(nums,0,nums.size()-1);    return nums;
}
};
```

53. Maximum Subarray

```
CODE:
class Solu on {
public:
   int maxSubArray(vector<int>& nums)
{   int maxSum = INT_MIN;
   int currentSum = 0;   for (int
   i = 0; i < nums.size(); i++) {</pre>
```



932.Beau ful Array

```
i=0;i<ans.size();i++){
if(ans[i]*2-1<=n){
temp.push_back(ans[i]*2-1);
      }
    for(int i=0;i<ans.size();i++){
if(ans[i]*2<=n){
temp.push_back(ans[i]*2);
    }
    ans=temp;
}
return ans;
}
};</pre>
```

```
Description Accepted X Destroia Solutions Submissions Instructe

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Accepted X Destroia Solution

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Description Accepted X Destroia Solutions Submissions Instructed Accepted X Destroia Solution

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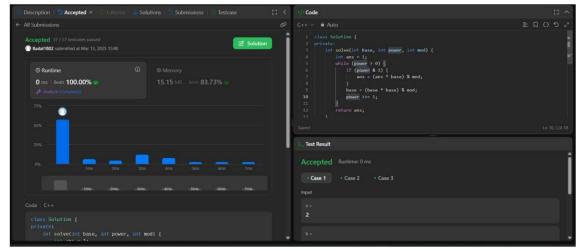
Description Solution (

Description Solution
```

372. Super Pow

CODE:

```
class Solu on {
private:
  int solve(int base, int power, int mod) {
int ans = 1;
               while (power > 0) {
                    ans = (ans *
if (power & 1) {
base) % mod;
       base = (base * base) % mod;
power >>= 1;
    }
    return ans;
  }
public:
  int superPow(int a, vector<int>& b)
                     int n = b.size();
      a%=1337;
int m = 1140;
                 int expi = 0;
                   expi =
for(int i : b){
(expi*10+i)%m;
    }
    if (\exp i == 0) {
expi = m;
    }
    return solve(a,expi,1337);
  }
};
OUTPUT:
```



218. The Skyline Problem

```
CODE:
class Solu on {
public:
  vector<vector<int>> getSkyline(vector<vector<int>>&
buildings) { int edge idx = 0;
                                  vector<pair<int, int>> edges;
priority queue<pair<int, int>> pq;
                                       vector<vector<int>>
skyline;
     for (int i = 0; i < buildings.size();
++i) {
              const auto &b =
buildings[i];
edges.emplace back(b[0], i);
edges.emplace back(b[1], i);
     std::sort(edges.begin(), edges.end());
     while (edge_idx < edges.size()) {
                                             int
curr height;
                    const auto &[curr_x, _] =
edges[edge idx];
                        while (edge_idx < edges.size()
&&
                curr_x == edges[edge_idx].first) {
```

