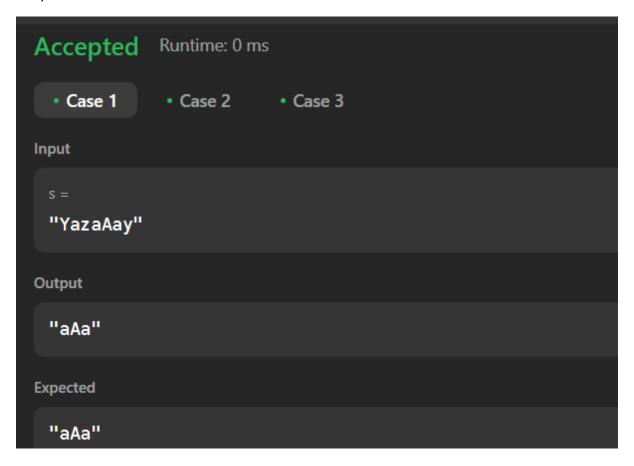
Name- Akul UID-22bcs10330 Section- 605-B

1763. Longest Nice Substring

Code:

```
class Solution
{
public:
string longestNiceSubstring(string s) {
    if (s.size() < 2) return "";
    unordered_set<char> st(begin(s), end(s));
    for (int i = 0; i < s.size(); i++) {
        if (st.find((char) toupper(s[i])) == end(st) || st.find((char) tolower(s[i])) == end(st)) {
            string s1 = longestNiceSubstring(s.substr(0, i));
            string s2 = longestNiceSubstring(s.substr(i + 1));
            return s1.size() >= s2.size() ? s1 : s2;
        }
    }
    return s;
}
```

Output:



190. Reverse Bits

Code:

```
class Solution {
public:
    uint32_t reverseBits(uint32_t n) {
        uint32_t result = 0;
        for (int i = 0; i < 32; i++) {
            int bit = n & 1;
            result = (result << 1) | bit;
            n = n >> 1;
        }
        return result;
    }
};
```

Output:

```
Accepted Runtime: 2 ms

• Case 1 • Case 2

Input

n = 000000101001010000001111010011100

Output

964176192 (001110010111100000101001000000)

Expected

964176192 (001110010111100000101001010000000)
```

191. Number of 1 Bits Code:

```
class Solution {
public:
    int hammingWeight(int n) {
        return __builtin_popcount(n);
    }
};
```

OUTPUT:

```
Accepted Runtime: 0 ms

• Case 1
• Case 2
• Case 3

Input

n = 11

Output

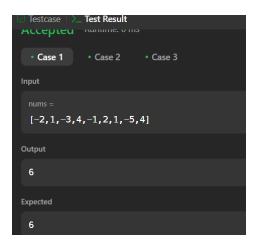
3

Expected
```

53. Maximum Subarray

Code:

OUTPUT:



240. Search a 2D Matrix II Code:

```
class Solution {
public:
    bool searchMatrix(vector<vector<int>>& matrix, int target) {
        int row = matrix.size();
        int col = matrix[0].size();
        //top-right conrer
        int i = 0;
        int j = col-1;

        while(i <= row-1 && j >= 0){
            if(matrix[i][j] == target) return true;
            else if(matrix[i][j] < target) i++;
            else j--;
        }
        return false;
    }
};</pre>
```

Output:

```
Testcase >_ Test Result

Input

matrix =
  [[1,4,7,11,15],[2,5,8,12,19],[3,6,9,16,22],[10,13,14,17,24],[18,21,23,26,30]]

target =
  5

Output

true

Expected

true
```

372. Super Pow Code:

```
class Solution {
public:
       int find(int a,int b)
           a%=1337;
           int res=1;
           for(int i=0;i<b;i++)</pre>
              res*=a;
               res%=1337;
           return res;
    int superPow(int a, vector<int>& b) {
        int res=1,x,f;
        for(int i=0;i<b.size();i++)</pre>
             x=find(a,b[i]);
             x*=res;
             x\%=1337;
              f=x;
             x=find(x,10);
             res=x;
        return f;
```

Output:

```
Accepted Runtime: 0 ms

• Case 1
• Case 2
• Case 3

Input

a = 2

b = [3]

Output

8
```