

# Water

Problem

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## Problem Statement

You are given an array  $H$  representing the heights of  $N$  vertical lines positioned at equally spaced intervals along a two-dimensional plane. The  $i$ -th line's height is represented by the integer  $H_i$  where  $0 \leq i < N$  and the height will be **unique**.

You need to find the two lines, such that together with the x-axis forms a container that can hold the most water in term of height.

**Note:** Print the left index first, then the right index.

## Input Format

- First line will contain  $T$ , the number of test cases.
- First line of each test case will contain  $N$ .
- Second line of each test case will contain the array  $H$ .

## Constraints

1.  $1 \leq T \leq 10^3$
2.  $2 \leq N \leq 10^5$
3.  $0 \leq H_i \leq 10^9$

## Output Format

- Output two integers, the index of those two lines that can contain the most water in term of height.

## Sample Input 0

```

2
9
1 8 3 4 0 7 6 5 2
5
5 2 1 6 3

```

## Sample Output 0

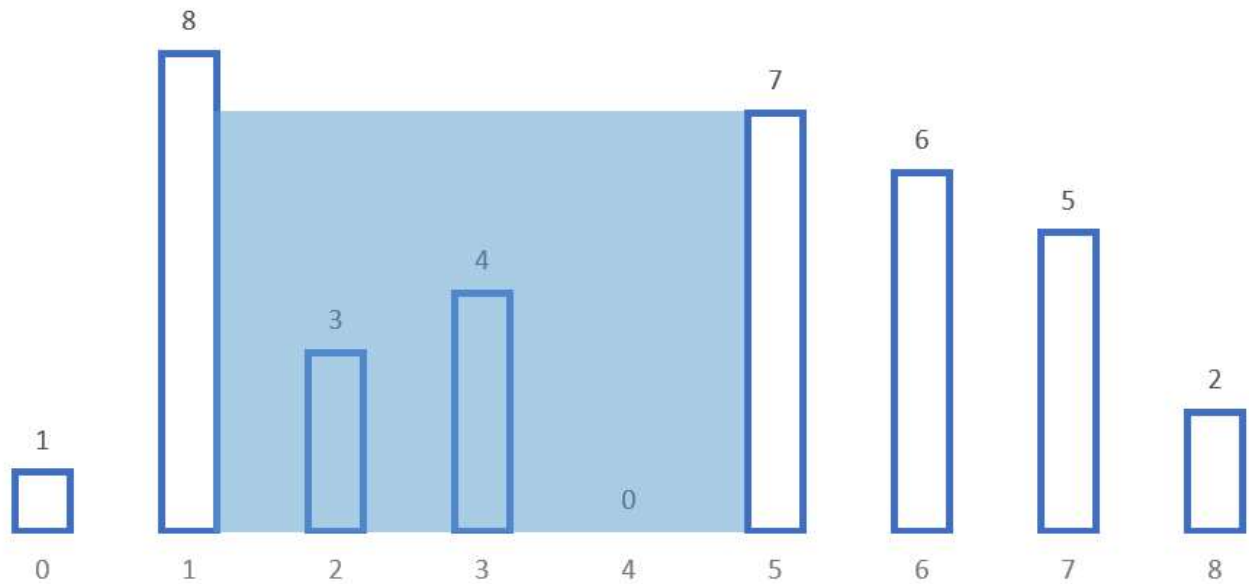
```

1 5
0 3

```

## Explanation 0

In the first test case, you can choose index 1 and 5 that can hold the most water in height which is 7.



[f](#) [t](#) [in](#)

Submissions: 412

Max Score: 25

Difficulty: Easy

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C++20



```
1 #include <cmath>
2 #include <cstdio>
3 #include <vector>
4 #include <iostream>
5 #include <algorithm>
6 using namespace std;
7
8
9 int main() {
10     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
11     return 0;
12 }
13
```

Line: 1 Col: 1

Upload Code as File ☐ Test against custom input

Run Code

Submit Code