**Q1: First Occurrence**

Given a target integer T and an integer array A sorted in ascending order, find the index of the first occurrence of T in A or return -1 if there is no such index.

**Assumptions**

There can be duplicate elements in the array

**Examples**

A = {1, 2, 3} T = 2, return 1

A = {1, 2, 3}, T = 3, return -1

A = {1, 2, 2, 2, 2, 3}, T = 2, return 1

**Q2：Closest in sorted array**

Give a target integer T and an integer array A sorted in ascending order, find the index I in A such that A[i] is closest to T.

**Assumptions**

There can be duplicate elements in the array, and we can return any of the indices with same value.

**Examples**

A = {1, 2, 3} T = 2, return 1

A = {1, 4, 6}, T = 3, return 1

A = {1, 4, 6}, T = 5, return 1 or 2

A = {1, 3, 3, 4}, T = 2, return 0 or 1 or 2

**Q3：Get Tree Height**