

2.1

Given an array. Let us assume that there can be duplicates in the list. Write a program to search for an element in the list in such a way that we get the highest index if there are duplicates.

2.2

Given key in a sorted array A with distinct values. Write a program to find i, j, k such that $A[i] + A[j] + A[k] == \text{key}$.

2.3

Suppose an array A has n distinct integers. Increasing sequence is given as $A[1].....A[k]$ and decreasing sequence is given as $A[k+1].....A[n]$. Write a program for finding k.