Given an array A[] and a number x, check for pair in A[] with sum as x (aka Two Sum)

Problem Statement:

Write a program that, given an array A[] of n numbers and another number x, determines whether or not there exist two elements in A[] whose sum is exactly x.

Examples:

Input: arr[] = {0, -1, 2, -3, 1}
        sum = -2
Output: -3, 1
          Valid pair exists.

If we calculate the sum of the output,
1 + (-3) = -2

Input: arr[] = {1, -2, 1, 0, 5}
        sum = 0
Output:
          No valid pair exists.