

Key Pair

<https://practice.geeksforgeeks.org/problems/key-pair5616/1>

APPROACH 1=> TWO POINTER;

SORT ARRAY TO APPLY 2 PTR;

NOW START PTR FROM END AND START;

IF $I+J > X$ THEN $J--$

IF $I+J < X$ THEN $I++$

IF $I+J == X$ RETURN TRUE;

```
//User function template for C++
class Solution{
public:
    // Function to check if array has 2 elements
    // whose sum is equal to the given value
    bool hasArrayTwoCandidates(int arr[], int n, int x) {
        // code here

        // Use std::sort to sort the array
        std::sort(arr, arr + n);
        int i=0;
        int j=n-1;
        while(i<j){
            if(arr[i]+arr[j]==x){
                return true;
            }else{
                if(arr[i]+arr[j]>x){
                    j--;
                }else{
                    i++;
                }
            }
        }
        return false;
    }
};
// } Driver Code Ends
```