

Practice Exercise #30: Find Pair

http://www.comp.nus.edu.sg/~cs1010/4_misc/practice.html

Reference: Week 8

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Objective: Array, function with pointer parameters

Task statement:

You are given an array of integers sorted in ascending order. You are also given a number k . Find one pair of integers in this array so that the sum of the pair equals k .

Your program should include a function **findPair()** that returns 1 if there is such a pair of numbers, or 0 otherwise. The function should also pass back to its caller the two elements that sum up to k .

If there is a solution, your program should print the pair of values. If there is no solution, your program should print "No solution!" as shown in the sample runs below.

You may assume that there are at most 10 elements in the array and that the user enters at least 1 integer for the array.

How does your function prototype look like for **findPair()**? Do you write the following?

```
int findPair(int [], int, int, int *, int *);
```

Sample runs:

```
Please enter number of elements: 6
Please enter 6 integers: 4 6 8 11 15 19
Please enter the target sum: 26
The pair of values are 11 and 15.
```

```
Please enter number of elements: 8
Please enter 8 integers: 1 4 9 15 21 30 35 42
Please enter the target sum: 23
No solution!
```