





1





















Array Bounds are Not Checked in C









How Do We Search When Values are Sorted? Imagine that you have • an array of integers • sorted in numerically increasing order.	
How do you check whether • a particular integer • appears in the array?	
Let's write a C function and return either • the index of the desired value, or • -1 if the value is not in the array.	
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Time for Another Think-Pair-Share

As before, let's do a group exercise in lecture.

The process:

- 1. I give you a problem.
- 2. You form groups of 3-4 people.
- 3. Talk about ways to solve the problem.
- 4. Once enough of the groups have finished, one group volunteers to share their answer.
- 5. We go over the group's answer together.

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The task...
Allow a user to enter up to 5 numbers (not -1).
End the list by typing -1 (not include in list).
Find and print average of user's numbers.
One half of the class writes main.
The other half writes calc_avg.
Let's use
int32_t calc_avg
(int32_t const array[], int32_t len);

The Task: Calculate Average of a List of Numbers