

Problem Set 3 Exercise #02: Existence

Reference: Week 7 Lecture notes

Learning objective: One-dimensional array

Estimated completion time: 10 minutes

Problem statement:

Write a program **exist.c** that reads an array of n integers ($0 < n \leq 10$) and another integer k , checks if k exists in the array.

Your program should contain a function

```
int contains(int arr[], int size, int k)
```

that checks if **k** is contained in array **arr** of **size** elements. It returns 1 if so, 0 otherwise.

Sample run #1:

```
Enter the number of elements: 5
Enter 5 elements: 1 -2 3 8 6
Enter k: 8
8 is in the given array
```

Sample run #2:

```
Enter the number of elements: 4
Enter 4 elements: 1 3 8 6
Enter k: 0
0 is not in the given array
```