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Self-Made Assignment - C Language

Searching, Insertion and Deletion in One dimensional Array

Question:

Write a program in C to search for a given element in a one-dimensional array using **linear search**.

- The program should take:
 - An array of integers.
 - A key (element to search).
- It should print the index of the key if found, or display "Element not found" if the key does not exist in the array.

Example Array:

```
int arr[] = {12, 45, 67, 23, 89, 34, 90};
```

Example Inputs:

- **Key to search: 23** → Expected Output: **Element found at index 3**
- **Key to search: 100** → Expected Output: **Element not found**

Question:

Write a C program to add a number at a given position in a one-dimensional array.

The program should do the following:

- Take an array of numbers.
- Take a number to add.
- Take the position (index) where the number should be added.

The program should insert the number at that position and print the new array.

Note: You can assume the array has space for one more number. If the position is less than 0 or more than the size of the array, show the message: "Invalid position".

Example Array:

```
int arr[] = {5, 10, 15, 20, 25};
```

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Example Inputs:

- Number to add: 12, Position: 2 →
Expected Output: Updated array: 5 10 12 15 20 25
- Number to add: 30, Position: 5 →
Expected Output: Updated array: 5 10 15 20 25 30
- Number to add: 8, Position: -1 →
Expected Output: Invalid position

