Challenge 2: Delete an Element at a Specific Index

Let's test your knowledge by solving a challenge in this lesson.

We'll cover the following

Problem statement

In this challenge, your task is to write a function `delete_element`. In its input parameters, the function will take:

- Pointer `arr` of type `int` by reference. Pointer `arr` is pointing to dynamically allocated array.
- Variables `size` and `index` of type `int`.

```
void  delete_element ( int  *&arr  , int size ,  int index )
```

Your task is to delete the element in an array at the given `index`.

> **Note:** By default, pointers are passed by value. It means if we point the pointer to the different memory location inside the function, it still points to the previous memory location outside of the function. Here, we are passing pointers by reference, so if we change the address stored in a pointer inside the function, it is also changed outside the function.

Sample input

```
delete_element ({10, 67, 98, 31}, 4 , 2 );
```

Sample output

```
{10, 67, 31}
```

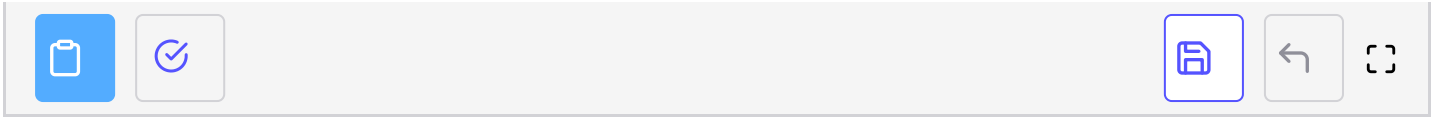
Coding exercise

Before diving directly into the solution, first, try to solve it yourself, and then check if your code passes all the test cases. If you get stuck, you can always see the given solution.

> 📝 Please don't modify the given function `delete_element` . Otherwise, your code will not compile.

Good Luck! 👍

```
void delete_element(int * & arr, int size, int index) {
  // Write your code here
}
```



🎉If you have solved the problem, congratulations!

In case you are stuck, let's go over the solution review in the next lesson.