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main.c

main.c

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```c
#include <stdio.h>
void deleteElement(int *arr, int *size, int index) {
    if (index < 0 || index >= *size) {
        printf("Invalid index\n");
        return;
    }
    for (int i = index; i < *size - 1; i++) {
        arr[i] = arr[i + 1];
    }
    (*size)--;
}
int main() {
    int arr[] = {1, 2, 3, 4, 5};
    int size = sizeof(arr) / sizeof(arr[0]);
    int index;
    printf("Enter the index of the element to delete: ");
    scanf("%d", &index);
    deleteElement(arr, &size, index);
    printf("Array after deletion:\n");
    for (int i = 0; i < size; i++) {
        printf("%d ", arr[i]);
    }
    printf("\n");
    return 0;
```

Output

```
/tmp/a.out
Enter the index of the element to delete: 2
Array after deletion:
1 2 4 5
```

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```c
#include <stdio.h>
void reverseArray(int *arr, int size) {
    int *start = arr;
    int *end = arr + size - 1;
    while (start < end) {
        int temp = *start;
        *start = *end;
        *end = temp;
        start++;
        end--;
    }
}
int main() {
    int arr[] = {1, 2, 3, 4, 5};
    int size = sizeof(arr) / sizeof(arr[0]);
    printf("Original array:\n");
    for (int i = 0; i < size; i++) {
        printf("%d ", arr[i]);
    }
    printf("\n");
    reverseArray(arr, size);
    printf("Reversed array:\n");
    for (int i = 0; i < size; i++) {
        printf("%d ", arr[i]);
    }
    printf("\n");
```

Output

```
/tmp/a.out
Original array:
1 2 3 4 5
Reversed array:
5 4 3 2 1
```

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main.c

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```c
#include <stdio.h>
void findLargestSmallest(int *arr, int size, int *largest, int *smallest) {
    *largest = *arr;
    *smallest = *arr;
    for (int i = 1; i < size; i++) {
        if (*(arr + i) > *largest) {
            *largest = *(arr + i);
        }
        if (*(arr + i) < *smallest) {
            *smallest = *(arr + i);
        }
    }
}
int main() {
    int arr[] = {4, 7, 2, 9, 1, 5};
    int size = sizeof(arr) / sizeof(arr[0]);
    int largest, smallest;
    findLargestSmallest(arr, size, &largest, &smallest);
    printf("The largest element in the array is: %d\n", largest);
    printf("The smallest element in the array is: %d\n", smallest);
    return 0;
}
```

Output

```
/tmp/a.out
The largest element in the array is: 9
The smallest element in the array is: 1
```

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main.c

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```c
#include <stdio.h>

void copyArray(int *source, int *target, int size) {
    for (int i = 0; i < size; i++) {
        *(target + i) = *(source + i);
    }
}

int main() {
    int source[] = {1, 2, 3, 4, 5};
    int target[5];
    int size = sizeof(source) / sizeof(source[0]);
    copyArray(source, target, size);
    printf("Contents of the target array:\n");
    for (int i = 0; i < size; i++) {
        printf("%d ", target[i]);
    }
    printf("\n");

    return 0;
}
```

Output

```
$ /tmp/a.out
Contents of the target array:
1 2 3 4 5
```

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main.c

main.c

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```c
#include <stdio.h>
void findIntersection(int *arr1, int size1, int *arr2, int size2) {
    printf("Intersection of the two arrays: ");
    for (int i = 0; i < size1; i++) {
        for (int j = 0; j < size2; j++) {
            if (*(arr1 + i) == *(arr2 + j)) {
                printf("%d ", *(arr1 + i));
                break;
            }
        }
    }
    printf("\n");
}

int main() {
    int arr1[] = {1, 2, 3, 4, 5};
    int size1 = sizeof(arr1) / sizeof(arr1[0]);

    int arr2[] = {3, 4, 5, 6, 7};
    int size2 = sizeof(arr2) / sizeof(arr2[0]);

    findIntersection(arr1, size1, arr2, size2);

    return 0;
}
```

Output

```
/tmp/a.out
Intersection of the two arrays: 3 4 5
```

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main.c

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```c
#include <stdio.h>
unsigned long long factorial(int n) {
    if (n == 0) {
        return 1;
    } else {
        return n * factorial(n - 1);
    }
}

int main() {
    int n;
    printf("Enter a non-negative integer: ");
    scanf("%d", &n);

    if (n < 0) {
        printf("Factorial is not defined for
        negative numbers.\n");
    } else {
        unsigned long long fact = factorial(n);
        printf("Factorial of %d is %llu\n", n,
        fact);
    }

    return 0;
}
```

Output

```
/tmp/a.out
Enter a non-negative integer: 6
Factorial of 6 is 720
```

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main.c

main.c | Save | Run

```c
#include <stdio.h>
int fibonacci(int n) {
    if (n <= 1) {
        return n;
    } else {
        return fibonacci(n - 1) + fibonacci(n - 2);
    }
}

int main() {
    int n;
    printf("Enter the value of n: ");
    scanf("%d", &n);

    if (n < 0) {
        printf("Invalid input. Fibonacci sequence is not defined for negative numbers.\n");
    } else {
        int result = fibonacci(n);
        printf("The %dth Fibonacci number is: %d\n", n, result);
    }

    return 0;
}
```

Output

```
/tmp/a.out
Enter the value of n: 25
The 25th Fibonacci number is: 75025
```

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main.c

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```c
#include <stdio.h>
int sumOfDigits(int num) {
    if (num == 0) {
        return 0;
    } else {
        return (num % 10) + sumOfDigits(num /
        10);
    }
}

int main() {
    int num;
    printf("Enter a number: ");
    scanf("%d", &num);

    int sum = sumOfDigits(num);
    printf("Sum of digits of %d is %d\n", num,
    sum);

    return 0;
}
```

Output

```
/tmp/a.out
Enter a number: 05
Sum of digits of 5 is 5
```

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