

Remove all negative numbers.

```
#include <iostream>
using namespace std;

void allocateMemory(int*& arr, int size) {
    arr = new int[size];
}

void RemoveNumbers(int*& arr, int& size) {
    int* temp = new int[size]; // Temporary array to hold non-
negative integers
    int newSize = 0; // New size of the array after removing
negative integers

    // Copy non-negative integers to the temporary array
    for (int i = 0; i < size; ++i) {
        if (arr[i] >= 0) {
            temp[newSize++] = arr[i];
        }
    }

    // Deallocate the original array
    delete[] arr;

    // Update size and assign the new array to arr
    size = newSize;
    arr = new int[size];
    for (int i = 0; i < size; ++i) {
        arr[i] = temp[i];
    }

    delete[] temp;
}
```

```
void deallocateMemory(int*& arr) {
    delete[] arr;
    arr = nullptr; // Reset the pointer to nullptr after
deallocation
}

int main() {
    int* arr = nullptr;
    int size;
    cout<<"Enter size ";
    std::cin >> size;
    allocateMemory(arr, size);
    cout<<"\nEnter array elements "<<endl;
    for (int i = 0; i < size; ++i) {
        std::cin >> arr[i];
    }

    RemoveNumbers(arr, size);
    cout<<"\nRemove Negative Numbers "<<endl;
    for (int i = 0; i < size; ++i) {
        std::cout << arr[i] << " ";
    }
    std::cout << std::endl;

    deallocateMemory(arr);

    return 0;
}
```

```
Enter size 8
```

```
Enter array elements
```

```
-2 5 -2 5 6 -6 11 -92
```

```
Remove Negative Numbers
```

```
5 5 6 11
```

```
=== Code Execution Successful ===
```