```cpp
/*This programme allows the user to enter a sequence of integers with unknown length terminated by
0 */
#include<iostream>
using namespace std;

void main() {

        int index = 0;
        int size = 1; // Size of the array at a given iteration
        int input = 1 ;

        int* pdynArray=nullptr; // Declaring the dynamic array
        int* ptempArray=nullptr; // Declaring the temporary array

        pdynArray = new int[size]; // Setting the size of the array to 1


        while (input) {

                cout << "Enter an integer: " << "\n";
                cin >> input;

                pdynArray[index]=input;

                size++;
                index++;

                ptempArray = new int[size]; // Allocating (size + 1) for extension

                // Copying the content of the dynamic array to the temporary array
                for (unsigned int i = 0; i < size-1; i++) ptempArray[i] = pdynArray[i];

                // Delete the dynamic array and rename the temporary array to be the new dynamic
    array
                delete[] pdynArray;
                pdynArray = nullptr;
                pdynArray = ptempArray;
                ptempArray = nullptr;




        };

        // Printing the integers
        cout << "Typed integers were" << "\n";
        for (unsigned int i = 0; i < size-1; i++) cout << pdynArray[i] << " ";
        cout << "\n";




        system("pause");


};
```