

National University of Computer and Emerging Sciences, Lahore Campus



Course:	Object Oriented Programming	Course Code:	
Program:	BS(Computer Science)	Semester:	Fall 2019
Topic:	Pointers	Total Marks:	10
Due Date:	5 th September, 2019	Weight	%
Section:	A	Page(s):	1
Exam:	Quiz 1	Reg. No	

Give output of the following code

```
int * function(int*& arr, int& size)
{
    int *a = arr;
    int* temp = new int[size];
    arr = temp;
    for (int i = 0; i < size; i++) {
        *(arr+i) = i + 3 + *a;
        a[i] *= 3;
    }
    return a;
}

void main()
{
    int* ptr = nullptr;
    int size = 5;
    ptr = new int[size];
    for (int i = 0; i < size; i++)
        ptr[i] = i * 5;

    int *x = function(ptr, size);

    for (int i = 0; i < size; i++)
        cout << ptr[i] << ", ";
    cout << endl;

    for (int i = 0; i < size; i++)
        cout << x[i] << ", ";

    delete[] ptr;
    delete[] x;
    _getch();
}
```