تمرینات جلسه ۲۱:

(*2) 1.

1.1 Define an array of **int**s with the ten elements { 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 }.

1.2 Define a **vector<int>** with those ten elements.
Note: Do not populate the vector using a loop statement, instead you have to use the vector's appropriate constructor with the array's begin and end

1.3 Define a **list<int>** with those ten elements. Note: see note at 1.2

1.4 Increase the value of each element in the array by 2; increase the value of each element in the vector by 3; increase the value of each element in the list by 5. Note: use generic algorithm transform.

(*1.5) 2. Implement the **count()** generic algorithm yourself. Test it.

(*1.5) 3. Implement the **count_if()** generic algorithm yourself. Test it.

(*1) 4. Implement iota_n. iota_n is like iota, but fills the first n elements of the container:

```
template <class ForwardIterator, class T>
void iota_n(ForwardIterator first, ForwardIterator last, T value, int N);
```