

## Laboratory practice No. III: Linked Lists and Vectors

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### 3) Practice for final project defense presentation

**3.1**  $O(n, m) = T(n, m) = n + m$  where  $m$  is the number of arc and  $n$  the number of vertex.

**3.3**  $O(n * m)$

**3.4** In  $O(n*m)$ , the  $n$  represents the number of lines that the scanned string has (the quantity of sentences separated by an enter). The  $m$  represents the size of string that is passed as a parameter, which is the size of each line.

### 4) Practice for midterms

#### 4.1

4.1.1  $res = res * 2 + int(vector[i])$

4.1.2  $O(n)$

#### 4.2 C.

#### 4.3

4.3.1 iv.

4.3.2 i.

#### 4.4

4.4.1 token.

4.4.2 C.

#### 4.5 A.

#### 4.6 A.