Laboratory practice No. 3: Linked list and dynamic vectors.

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4) *Practice for midterms*

4.1 Line 4 : res += int(vector[i])*(2**(len(vector) -1) -i)
Complexity: O(n)

4.2 C

4.3 4.3.1. IV
4.3.2 i

4.4 Line 21: output.append(token)
Complexity in the worst case for pop() : O(1)

4.5 *A*

4.6 *A*

4.7 *III*

4.8 *D*

4.9 4.9.1 *A* 4.9.2 *C* 4.9.3 *C*

4.10 4.10.1 *D* *4.10.2 A* *4.10.3 B*

4.11 4.11.1 *C* 4.11.2 *B*

4.12 4.12.1 *while(!(s1.isEmpty()));* 4.12.2 *s2.push(s1.pop());* 4.12.3 return s2. pop

4.13 4.13.1 iii, O(n^2) 4.13.2 iii, O(n^2)

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