Лабораторная работа №2

***I Код (написан на языке Pascal)***

**Program** lab2;

**Type**

Element = ^Nod;

Nod = **Record**

val: integer;

link: Element;

**end**;

**Var**

stiva1, stiva2: Element;

temp: Element;

parc1, parc2: Element;

num: integer;

check: boolean;

**Begin**

stiva1:= Nil;

stiva2:= Nil;

writeln('Introduceti numere pentru lista nr.1: ');

readln(num);

**while** (num <> 0) **do**

**begin**

**New**(temp);

temp^.val:= num;

temp^.link:= stiva1;

stiva1:= temp;

readln(num);

**end**;

writeln;

writeln('Introduceti numere pentru lista nr.2: ');

readln(num);

**while** (num <> 0) **do**

**begin**

**New**(temp);

temp^.val:= num;

temp^.link:= stiva2;

stiva2:= temp;

readln(num);

**end**;

writeln;

parc1:= stiva1;

parc2:= stiva2;

check:= true;

**while**((parc1 <> Nil) **and** (parc2 <> Nil) **and** check) **do begin**

**if** (parc1^.val <> parc2^.val) **or** ((parc1^.link = Nil) **and** (parc2^.link <> Nil)) **or** ((parc1^.link <> Nil) **and** (parc2^.link = Nil)) **then** check:= false;

parc1:= parc1^.link;

parc2:= parc2^.link;

**end**;

**if** (check) **then** writeln('Sunt identice')

**else** writeln('Nu sunt identice');

**End**.