Лабораторная работа №12

***I Код (написан на языке Pascal)***

**Program** laborator\_12;

**Type**

book = **record**

title: string;

author: string;

year: integer;

**end**;

Ar = **Array**[1..100] **of** book;

**var**

arBook: Ar;

i, j, tYear, n, yearSort:integer;

tTitle, tAuthor, x: string;

tempSort: book;

**begin**

writeln('Введите кол-во книг: ');

readln(n);

**for** i:= 1 **to** n **do begin**

writeln('Введите название книги: ');

readln(tTitle);

arBook[i].title:= tTitle;

writeln('Введите автора книги: ');

readln(tAuthor);

arBook[i].author:= tAuthor;

writeln('Введите год издания книги: ');

readln(tYear);

arBook[i].year:= tYear;

**end**;

// 1

writeln('=====Condition 1=====');

**for** i:=1 **to** n-1 **do begin**

**for** j:=1 **to** n-i **do begin**

**if**(arBook[j].author > arBook[j+1].author) **then begin**

tempSort:= arBook[j].author;

arBook[j].author:= arBook[j+1].author;

arBook[j+1].author:= tempSort;

**end**;

**end**;

**end**;

**for** i:=1 **to** n **do**

writeln(arBook[i].author);

// 2

writeln('=====Condition 2=====');

**for** i:=1 **to** n-1 **do begin**

**for** j:=1 **to** n-i **do begin**

**if**(arBook[j].year > arBook[j+1].year) **then begin**

yearSort:= arBook[j].year;

arBook[j].year:= arBook[j+1].year;

arBook[j+1].year:= yearSort;

**end**;

**end**;

**end**;

**for** i:=1 **to** n **do**

writeln(arBook[i]);

// 3

writeln('=====Condition 3=====');

writeln('Введите имя автора: ');

readln(x);

**for** i:=1 **to** n **do begin**

**if**(arBook[i].author = x) **and** (arBook[i].year > 1989) **then** writeln(arBook[i].title);

**end**;

**end**.