

```
1 Program f2_01;
2 {
   Задача. Отсортировать файл по возрастанию методом выбора.

   Решение. Сергей Игнатов,
           СПК СП 1, 2 курс,
           30.04.09, 18:05
}

8 Uses Crt;

9 Var
10 F : file of integer;

11 i,
12 j,
13 d,
14 a,
15 min,
16 i_min,
17 ai,
18 aj
19 : integer;

20 Begin
21 ClrScr;

22 Randomize;

23 Assign (F, 'D:\BP\BIN\SERGEY\f2_01.txt');

24 Write ('Введите длину файла: ');
25 ReadLn (d);

26 Rewrite (F);

27 for i := 1 to d do
28 begin
29 a := Random (20) - Random (20);
30 Write (F, a);
31 end;

32 Close (F);

33 WriteLn;

34 Reset (F);
35 Write ('Данный файл: ');
36 for i := 1 to d do
37 begin
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38         Read (F, a);

39         Write (a, ' ');
40     end;

41     Close (F);

42     WriteLn;

43     { метод выбора для массива
min := A [1];
i_min := 1;
for j := 1 to d - 1 do
    begin
        min := A [j];
        i_min := j;
        for i := j + 1 to d do
            begin
                if A [i] <= min
                then
                    begin
                        min := A [i];
                        i_min := i;
                    end;
                end;
            A [i_min] := A [j];
            A [j] := min;
        end;
    }

63     {min := A [1];}
64     Reset (F);
65     d := FileSize (F);

66     Reset (F);
67     Read (F, min);
68     i_min := 1;
69     Reset (F);
70     for j := 1 to d - 1 do
71         begin
72             {min := A [j];}
73             Seek (F, j - 1);
74             Read (F, min);
75             i_min := j;
76             for i := j + 1 to d do
77                 begin
78                     {if A [i] <= min}
79                     Seek (F, i - 1);
80                     Read (F, ai);
81                     if ai <= min
82                     then

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83         begin
84             {min := A [i];}
85             min := ai;
86             i_min := i;
87         end;
88     end;

89     {A [i_min] := A [j];}
90     Seek (F, j - 1);
91     Read (F, aj);
92     Seek (F, i_min - 1);
93     Write (F, aj);

94     {A [j] := min;}
95     Seek (F, j - 1);
96     Write (F, min);
97     end;

98     Close (F);

99     Reset (F);
100    Write ('Файл-результат: ');
101    while not Eof (F) do
102        begin
103            Read (F, a);

104            Write (a, ' ');
105        end;
106    Close (F);

107    WriteLn;
108    WriteLn ('ok!');

109    ReadLn;
110    End.

```

Sergey Mitrofanov, 01.10.13, 21:23

E-mail: infostar@mail.ru

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