

```
1  program selection_sort;
2
3  {dia 06/05
4
5  Version: 0.5
6
7  Nome: Wellington De Souza Silva
8
9  Método : Selection Sort}
10
11 // bug com dois valores altos ???
12
13 uses crt;
14
15 const
16     MAX = 10;
17
18 type
19     Tdado = integer;
20
21     Tvetor = array[1..MAX] of Tdado;
22
23 var
24     vetor : Tvetor;
25
26 //usado para tester
27 procedure preencher(var vetor : Tvetor);
28 begin
29     vetor[1] := 4;
30     vetor[2] := 3;
31     vetor[3] := 500;
32     vetor[4] := 7;
33     vetor[5] := 10;
34     vetor[6] := 1309;
35     vetor[7] := 8;
36     vetor[8] := 9;
37     vetor[9] := 2;
38     vetor[10] := 6;
39 end;
40
41 procedure manual(var vetor:Tvetor);
42 var
43     i : integer;
44 begin
45     for i := 1 to MAX do
46     begin
47         writeln('informe o valor ',i);
48         readln(vetor[i]);
49     end;
50 end;
51 // acha o menor, nucleo do programa
52 procedure kernel(var vetor : Tvetor; pos : integer);
53 var
54     aux : integer=0;
55     j: integer;
56     menor : integer;
57 begin
```

```
58     menor := pos;
59     for j:= pos+1 to MAX do
60     begin
61         if vetor[menor] > vetor[j] then
62         begin
63             menor := j;
64
65         end;
66     end;
67
68     aux := vetor[pos];
69     vetor[pos] := vetor[menor];
70     vetor[menor] := aux;
71 end;
72
73 //////////////////////////////////////////////////
74 procedure exhibir(vetor: Tvetor);
75 var
76     i : integer;
77 begin
78     writeln;
79     write(' | ');
80     for i:=1 to MAX do
81     begin
82         write(vetor[i]);
83         write(' | ');
84     end;
85     writeln;
86 end;
87
88 procedure repetir();
89 var
90     i: integer;
91 begin
92     for i:=1 to MAX-1 do
93     begin
94         kernel(vetor,i);
95     end;
96 end;
97
98 begin
99     manual(vetor);
100    writeln('Vetor Original');
101    exhibir(vetor);
102    repetir();
103    writeln;
104    writeln('Vetor Ordenado');
105    exhibir(vetor);
106 end.
107
```